



March 19, 2025

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
Ray State Slot 4
Incident Number nAPP2417872718
Eddy 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 Ray State Slot 4 (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 leak on a minion tank during fracking operations. 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 nAPP2417872718.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 01, Township 24 South, Range 28 East, in Eddy County, New Mexico (32.2524342°, -104.03408°) and is associated with oil and gas exploration and production operations on private land.

On June 26, 2024, a leak on a minion tank developed resulting in the release of 16 barrels (bbls) of produced water on pad. A vacuum truck was immediately dispatched to recover standing fluid; 8 bbls were recovered. Matador submitted a Release Notification Form C-141 (C-141) on July 1, 2024. The Form C-141 can be referenced on the New Mexico Oil Conservation Division (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). 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 C-03615 POD1, located approximately 0.63 miles southeast of the Site. The well had a reported depth to groundwater of 36 feet below ground surface (bgs). All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

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The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 420 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (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): 100 mg/kg
- Chloride: 600 mg/kg

On September 5, September 6, and September 19, 2025, Ensolum personnel conducted soil sampling around the Site to assess the presence or absence of naturally occurring chloride in undisturbed soil horizons. A total of seven background samples (BG01 through BG07) were collected in areas that did not appear to be disturbed by oil and gas operations and at depths ranging from ground surface to 18 feet bgs. Background soil samples BG01 and BG02 were excluded from background averages as they were only collected at ground surface. Background soil sample locations are presented on Figure 2. Naturally occurring chloride and pad construction discussion is included in correspondences with the NMOCD in Appendix E.

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-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Field screening results and lithologic observations were logged on lithologic soil sampling logs, which are included in Appendix B.

NMOCD approved a naturally occurring chloride concentration limit, via email on January 28, 2025, of vertical delineation of chloride concentrations that meet 1,118 mg/kg, excavation of unnaturally high chloride (elevated chloride concentrations in conjunction with elevated TPH concentrations), and 100 mg/kg TPH for floor samples, and a concentration of 1,690 mg/kg for chloride and 100 mg/kg for TPH in sidewall confirmation samples at the Site (see Appendix E). These concentrations were utilized to laterally and vertically delineate the release in lieu of 600 mg/kg.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On August 23, August 27 through August 30, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Preliminary soil samples SS01 through SS03 were collected at ground surface to assess the lateral extent of the release area. Nine potholes (PH01 through PH09) were advanced within the release extent to assess the vertical extent of impacted soil; pothole PH04 was advanced to a depth of 1-foot bgs, potholes PH02 and PH03 were advanced to a depth of 7 feet bgs, pothole PH05 was advanced to a depth of 10 feet

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bgs, pothole PH06 was advanced to a depth of 11 feet bgs, pothole PH08 was advanced to a depth of 12 feet bgs, pothole PH01 was advanced to a depth of 15 feet bgs, and potholes PH07 and PH09 were advanced to a depth of 16 feet bgs.

The preliminary soil samples and boreholes were field screened for chloride and TPH utilizing Hatch® QuanTab® chloride test strips and a PetroFLAG® Soil Analyzer System, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 3. Photographs from delineation and excavation activities can be referenced in the Photolog in Appendix C. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B.

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 for analysis of BTEX, TPH, and chloride.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Beginning on February 24, through February 27, 2025, impacted and waste containing soil was excavated from the release area as indicated by visible staining and delineation soil sampling results. Excavation activities were performed using a frontend loader, track hoe, and belly dump trucks. To direct excavation activities, Ensolum personnel screened soil for chloride and TPH utilizing the processes described above.

A confirmation sampling variance request was submitted on December 18, 2024, to increase the sampling area to every 400 square feet from the floor of the excavation and every 200 square feet from the sidewalls of the excavation, where applicable. The confirmation sampling variance request was approved via email on January 28, 2025 (see Appendix E).

Following the removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 400 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS56 were collected from the floor of the excavation ranging in depth from 1-foot bgs to 4 feet bgs and sidewall soil samples SW01 through SW05 were collected from the excavation sidewalls representing no more than 200 square feet ranging in depth from ground surface to 4 feet bgs. The excavation extent and excavation soil sample locations are presented on Figure 4.

The final excavation extent measured approximately 22,400 square feet. A total of approximately 1,580 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land, LLC in Hobbs, 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 SS03 were all in compliance with the Site Closure Criteria at ground surface. Laboratory analytical results for potholes PH04 indicated all COCs were in compliance with the strictest Closure Criteria per NMOCD Table I at 1-foot bgs, 6 feet bgs in potholes PH02 and PH03, 8 feet bgs in pothole PH05, 10 feet bgs in pothole PH06. Laboratory analytical results for potholes PH07 and PH09 indicated that concentrations for benzene, BTEX, and TPH were in compliance with the strictest Closure Criteria per NMOCD Table I and with the chloride variance at 12 feet bgs, 11 feet bgs in pothole PH01, and 8 feet bgs in pothole PH01.

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Laboratory analytical results for excavation floor soil samples FS01 through FS56 and sidewall samples SW01 through SW05 indicated concentrations for benzene, BTEX, and TPH were compliant with the Site Closure Criteria per NMOC Table I and all gross chloride (elevated chloride with elevated TPH) impacts were excavated at depths ranging from 1-foot to 4 feet bgs. Laboratory analytical results are summarized in Tables 1, 2, 3, and 4, and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

The release extent has been laterally defined in accordance with the approved naturally occurring chloride variance by sidewall soil samples SW01 through SW05, collected at depths ranging from ground surface to 4 feet bgs, and vertically by potholes PH01 through PH09. Excavation of impacted soil was completed, and excavation floor samples FS01 through FS56, collected at depths ranging from 1-foot bgs to 4 feet bgs were all excavated to remove gross chloride impacts. Gross impacts are chloride concentrations above 600 mg/kg associated with elevated TPH; those concentrations associated with elevated TPH have been removed. Sidewall sample SW01 exceeds approved chloride variance for sidewall samples; however, SW01 was collected at depths ranging from 0-1.5 feet bgs, which appears to be more indicative of the other naturally occurring chloride results observed at the Site and does comply with the approved floor sample variance and is within the naturally occurring chloride concentrations range.

Based on the remedial actions completed to date, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2417872718.

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

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "CHAD HAMILTON", with a stylized flourish at the end.

Chad Hamilton
Project Geologist

A handwritten signature in black ink, appearing to read "DANIEL R. MOIR", with a stylized flourish at the end.

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

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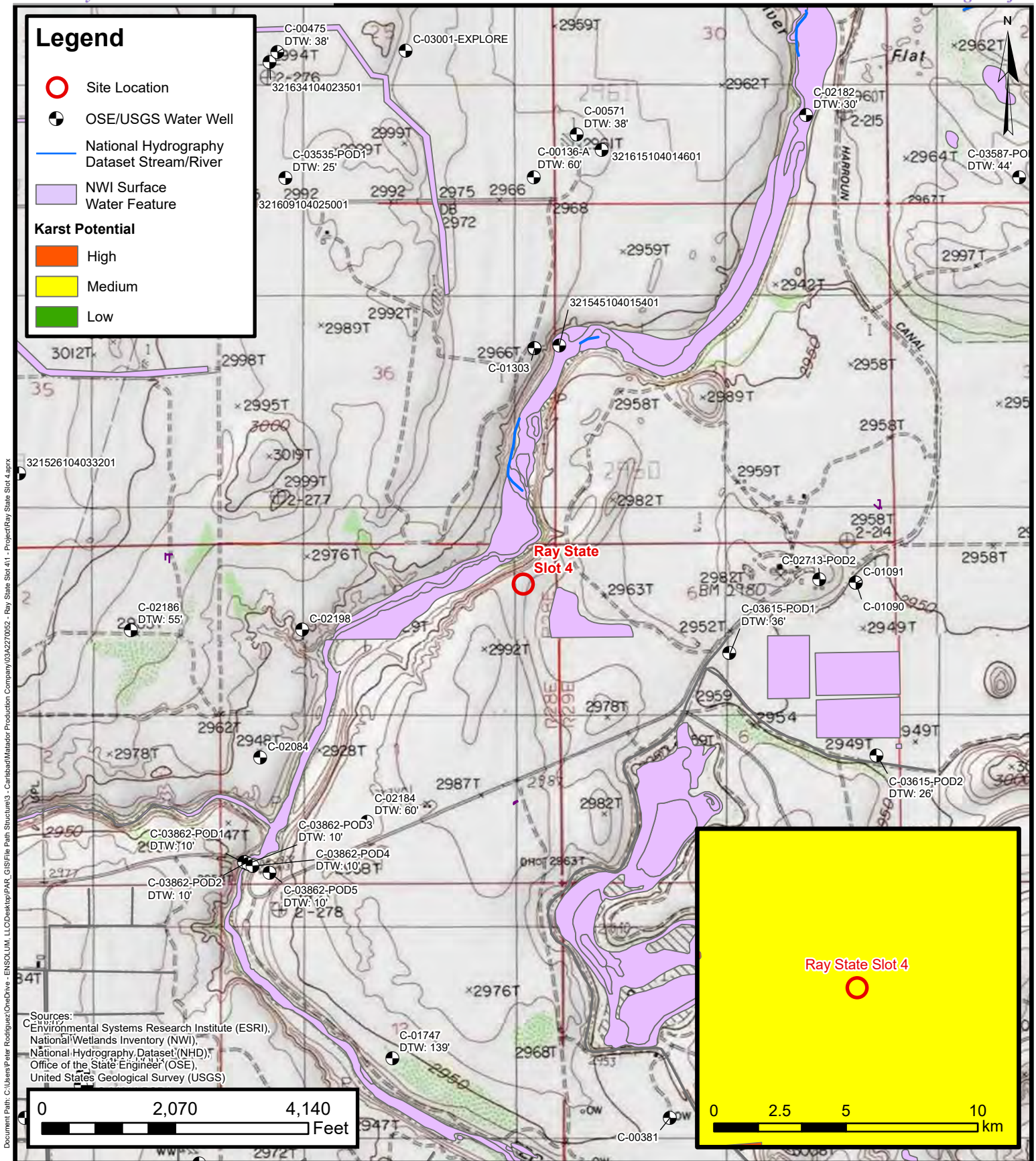


Appendices:

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|------------|--|
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| Figure 3 | Background Soil Sample Locations |
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| | |
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| Appendix B | Lithologic / Soil Sampling Logs |
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| Appendix D | Laboratory Analytical Reports & Chain-of-Custody Documentation |
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FIGURES



Site Receptor Map

Matador Production Company

Ray State Slot 4

Incident Number: nAPP2417872718

Unit A, Section 01, T24S, R28E

Eddy County, New Mexico

FIGURE

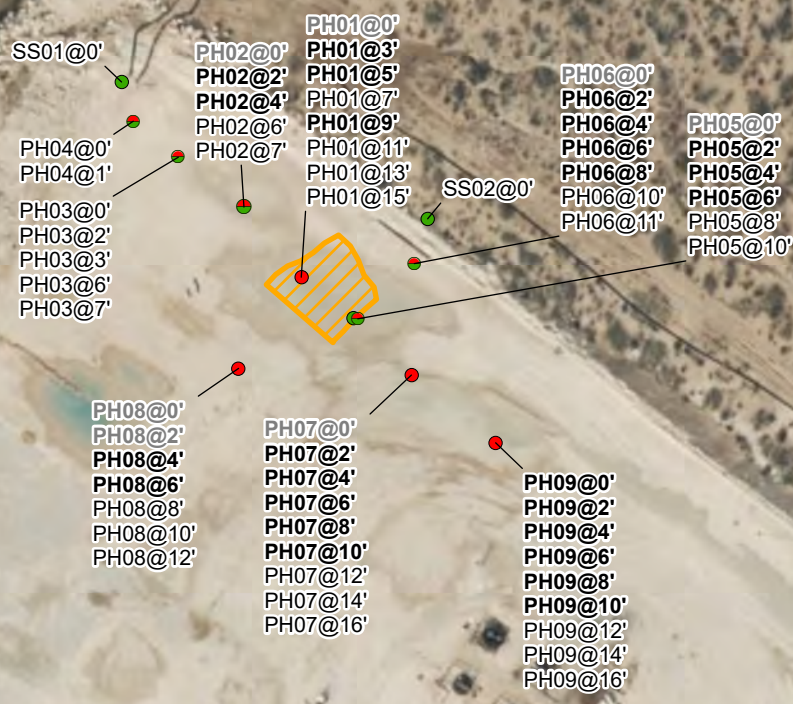
1



Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample Previously not Compliant with Closure Criteria
- Delineation Soil Sample Not in Compliance with Closure Criteria
- Release Extent

Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure3 - Carlsbad\Matador Production Company\03A227052 - Ray State Slot 41 - Project\Ray State Slot 4.aprx



Notes:
Sample ID @ Depth Below Ground Surface
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria
or reclamation standard where applicable.

0 100 200
Feet

Sources:
Bing Maps



Delineation Soil Sample Locations

Matador Production Company
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Unit A, Section 01, T24S, R28E
Eddy County, New Mexico

FIGURE
2

Legend

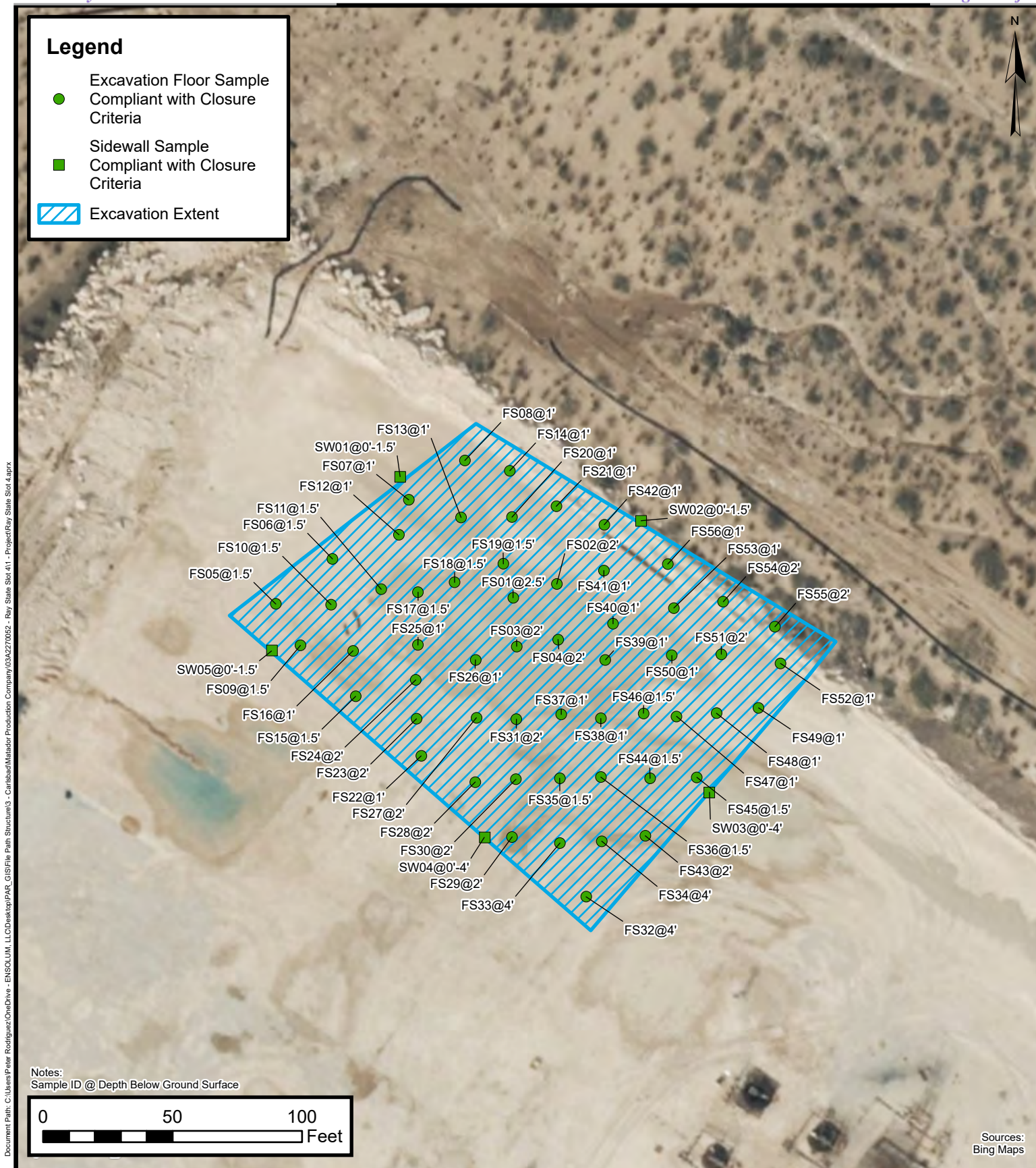
- Background Sample in Compliance with Closure Criteria
- Background Sample Previously not Compliant with Closure Criteria

 Release Extent

**Background Sample Locations**

Matador Production Company
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Unit A, Section 01, T24S, R28E
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FIGURE
3



Excavation Sample Locations

Matador Production Company
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Unit A, Section 01, T24S, R28E
Eddy County, New Mexico

FIGURE
4



TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Ray State Slot 4
 Matador Production Company
 Eddy County, New Mexico

| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | 1,118 |
| Delineation Soil Samples | | | | | | | | | | |
| PH01 | 8/23/2024 | 0 | <0.0250 | <0.0500 | <20.0 | 91.4 | 114 | 91.4 | 205 | 25,700 |
| PH01 | 8/23/2024 | 3 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,580 |
| PH01 | 8/23/2024 | 5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,040 |
| PH01 | 8/23/2024 | 7 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 587 |
| PH01 | 8/23/2024 | 9 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,760 |
| PH01 | 8/23/2024 | 11 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,020 |
| PH01 | 8/27/2024 | 13 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 678 |
| PH01 | 8/27/2024 | 15 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 638 |
| PH02 | 8/27/2024 | 0 | <0.0250 | <0.0500 | <20.0 | 85.3 | 63.2 | 85.3 | 149 | 2,790 |
| PH02 | 8/27/2024 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,730 |
| PH02 | 8/27/2024 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,590 |
| PH02 | 8/27/2024 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 400 |
| PH02 | 8/27/2024 | 7 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 308 |
| PH03 | 8/27/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 905 |
| PH03 | 8/27/2024 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,030 |
| PH03 | 8/27/2024 | 3 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 927 |
| PH03 | 8/27/2024 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 310 |
| PH03 | 8/27/2024 | 7 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 377 |
| PH04 | 8/28/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 870 |
| PH04 | 8/28/2024 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 472 |
| PH05 | 8/28/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,540 |
| PH05 | 8/28/2024 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,330 |
| PH05 | 8/28/2024 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,280 |
| PH05 | 8/28/2024 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,840 |
| PH05 | 8/28/2024 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 319 |
| PH05 | 8/28/2024 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 556 |
| PH06 | 8/28/2024 | 0 | <0.0250 | <0.0500 | <20.0 | 277 | 380 | 277 | 657 | 1,460 |
| PH06 | 8/28/2024 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,390 |
| PH06 | 8/28/2024 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,790 |
| PH06 | 8/28/2024 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,380 |
| PH06 | 8/28/2024 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,540 |
| PH06 | 8/28/2024 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 236 |



TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Ray State Slot 4
 Matador Production Company
 Eddy County, New Mexico

| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | 1,118 |
| Delineation Soil Samples | | | | | | | | | | |
| PH06 | 8/28/2024 | 11 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 250 |
| PH07 | 8/28/2024 | 0 | <0.0250 | <0.0500 | <20.0 | 545 | 1840 | 545 | 2385 | 3,990 |
| PH07 | 8/28/2024 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 3,050 |
| PH07 | 8/28/2024 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 821 |
| PH07 | 8/28/2024 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,870 |
| PH07 | 8/29/2024 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,230 |
| PH07 | 8/29/2024 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,160 |
| PH07 | 8/29/2024 | 12 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 768 |
| PH07 | 8/29/2024 | 14 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 653 |
| PH07 | 8/29/2024 | 16 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 672 |
| PH08 | 8/29/2024 | 0 | <0.0250 | <0.0500 | <20.0 | 516 | 152.0 | 516 | 668 | 2,760 |
| PH08 | 8/29/2024 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,680 |
| PH08 | 8/29/2024 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,750 |
| PH08 | 8/29/2024 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,680 |
| PH08 | 8/29/2024 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 613 |
| PH08 | 8/29/2024 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 812 |
| PH08 | 8/29/2024 | 12 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 670 |
| PH09 | 8/30/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,240 |
| PH09 | 8/30/2024 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,770 |
| PH09 | 8/30/2024 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,860 |
| PH09 | 8/30/2024 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,060 |
| PH09 | 8/30/2024 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,120 |
| PH09 | 8/30/2024 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,280 |
| PH09 | 8/30/2024 | 12 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 414 |
| PH09 | 8/30/2024 | 14 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 923 |
| PH09 | 8/30/2024 | 16 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 790 |

| TABLE 1 - CONT'D SOIL SAMPLE ANALYTICAL RESULTS Ray State Slot 4 Matador Production Company Eddy County, New Mexico | | | | | | | | | | |
|---|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| Delineation Soil Samples | | | | | | | | | | |
| SS01 | 8/27/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 297 |
| SS02 | 8/27/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 244 |
| SS03 | 8/29/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 45.5 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Ray State Slot 4
 Matador Production Company
 Eddy County, New Mexico

| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| Background Soil Samples | | | | | | | | | | |
| BG03 | 9/5/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| BG03 | 9/5/2024 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 45.8 |
| BG03 | 9/5/2024 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,940 |
| BG03 | 9/5/2024 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,790 |
| BG03 | 9/5/2024 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,650 |
| BG03 | 9/5/2024 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 844 |
| BG03 | 9/5/2024 | 12 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 897 |
| BG03 | 9/5/2024 | 14 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,040 |
| BG03 | 9/5/2024 | 16 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 396 |
| BG03 | 9/5/2024 | 18 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 511 |
| BG04 | 9/19/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| BG04 | 9/19/2024 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 830 |
| BG04 | 9/19/2024 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,610 |
| BG04 | 9/19/2024 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,590 |
| BG04 | 9/19/2024 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,140 |
| BG04 | 9/19/2024 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 524 |
| BG04 | 9/19/2024 | 12 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,290 |
| BG04 | 9/19/2024 | 14 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 509 |
| BG05 | 9/6/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| BG05 | 9/6/2024 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 30.3 |
| BG05 | 9/6/2024 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,690 |
| BG05 | 9/6/2024 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,380 |
| BG05 | 9/6/2024 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,280 |
| BG05 | 9/6/2024 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 640 |
| BG05 | 9/6/2024 | 12 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 907 |
| BG05 | 9/6/2024 | 14 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 138 |
| BG06 | 9/6/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| BG06 | 9/6/2024 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | <20.0 |
| BG06 | 9/6/2024 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,110 |
| BG06 | 9/6/2024 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,650 |
| BG06 | 9/6/2024 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,380 |
| BG06 | 9/6/2024 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 824 |
| BG06 | 9/6/2024 | 12 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 601 |

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Ray State Slot 4
 Matador Production Company
 Eddy County, New Mexico

| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| Background Soil Samples | | | | | | | | | | |
| BG06 | 9/6/2024 | 14 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 213 |
| BG07 | 9/19/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 140 |
| BG07 | 9/19/2024 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 813 |
| BG07 | 9/19/2024 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,440 |
| BG07 | 9/19/2024 | 6 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,040 |
| BG07 | 9/19/2024 | 8 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,290 |
| BG07 | 9/19/2024 | 10 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,890 |
| BG07 | 9/19/2024 | 12 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 81.6 |
| BG07 | 9/19/2024 | 14 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 766 |
| BG07 | 9/19/2024 | 15 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 839 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
 Ray State Slot 4
 Matador Production Company
 Eddy County, New Mexico

| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | See Below |
| Excavation Floor Soil Samples | | | | | | | | | | |
| FS01 | 2/26/2025 | 2.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,520 |
| FS02 | 2/25/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 4,450 |
| FS03 | 2/25/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,860 |
| FS04 | 2/25/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,040 |
| FS05 | 2/26/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,180 |
| FS06 | 2/26/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 703 |
| FS07 | 2/25/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,070 |
| FS08 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 237 |
| FS09 | 2/26/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,210 |
| FS10 | 2/26/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 998 |
| FS11 | 2/26/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,040 |
| FS12 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | 36.0 | 50.6 | 36.0 | 86.6 | 1,490 |
| FS13 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 770 |
| FS14 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | 30.4 | <50.0 | <25.0 | 30.4 | 135 |
| FS15 | 2/27/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,590 |
| FS16 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | 35.9 | <50.0 | <25.0 | 3509 | 2,170 |
| FS17 | 2/27/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 995 |
| FS18 | 2/27/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,370 |
| FS19 | 2/27/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 605 |
| FS20 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 280 |
| FS21 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,250 |
| FS22 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | 66.7 | <50.0 | <25.0 | 66.7 | 2,760 |
| FS23 | 2/27/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,320 |
| FS24 | 2/27/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,480 |
| FS25 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 3,340 |
| FS26 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 3,190 |
| FS27 | 2/27/2025 | 2 | <0.0250 | <0.0500 | <20.0 | 36.1 | <50.0 | <25.0 | 36.1 | 2,610 |
| FS28 | 2/27/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 375 |
| FS29 | 2/27/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 3,760 |
| FS30 | 2/27/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,510 |
| FS31 | 2/27/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,340 |



TABLE 3 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Ray State Slot 4
 Matador Production Company
 Eddy County, New Mexico

| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | See Below |
| Excavation Floor Soil Samples | | | | | | | | | | |
| FS32 | 2/27/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,240 |
| FS33 | 2/27/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,190 |
| FS34 | 2/27/2025 | 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,230 |
| FS35 | 2/27/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,280 |
| FS36 | 2/26/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,450 |
| FS37 | 2/25/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,660 |
| FS38 | 2/25/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,280 |
| FS39 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,330 |
| FS40 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,090 |
| FS41 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,910 |
| FS42 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,930 |
| FS43 | 2/27/2025 | 2 | <0.0250 | <0.0500 | <20.0 | 47.7 | <50.0 | <25.0 | 47.7 | 3,280 |
| FS44 | 2/26/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 2,800 |
| FS45 | 2/26/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | 27.7 | <50.0 | <25.0 | 27.7 | 1,570 |
| FS46 | 2/26/2025 | 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,290 |
| FS47 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 999 |
| FS48 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,070 |
| FS49 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 763 |
| FS50 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,350 |



TABLE 3 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Ray State Slot 4
 Matador Production Company
 Eddy County, New Mexico

| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | See Below |
| Excavation Floor Soil Samples | | | | | | | | | | |
| FS51 | 2/27/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,110 |
| FS52 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 504 |
| FS53 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,200 |
| FS54 | 2/27/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 852 |
| FS55 | 2/27/2025 | 2 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,270 |
| FS56 | 2/26/2025 | 1 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,380 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

See Below: Gross chloride impacts are concentrations above 600 mg/kg associated with elevated TPH concentrations.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 4
SOIL SAMPLE ANALYTICAL RESULTS
 Ray State Slot 4
 Matador Production Company
 Eddy County, New Mexico

| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| Sidewall Soil Samples | | | | | | | | | | |
| SW01 | 2/27/2025 | 0 - 1.5 | <0.0250 | <0.0500 | <20.0 | 28.9 | <50.0 | <25.0 | 28.9 | 1,940 |
| SW02 | 2/27/2025 | 0 - 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,580 |
| SW03 | 2/27/2025 | 0 - 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 817 |
| SW04 | 2/27/2025 | 0 - 4 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 907 |
| SW05 | 2/27/2025 | 0 - 1.5 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 1,200 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A


Well Log and Record



New Mexico Office of the State Engineer

Point of Diversion Summary

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

| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y |
|----------|------------|-----|-----|----|-----|-----|-----|--------|---|
| C | 03615 POD1 | 1 | 3 | 2 | 06 | 24S | 29E | 591964 | 3568500  |

| | |
|--|---|
| Driller License: 1348 | Driller Company: TAYLOR WATER WELL SERVICE |
| Driller Name: TAYLOR, CLINTON E. (LD) | |
| Drill Start Date: 05/04/2013 | Drill Finish Date: 05/04/2013 |
| Log File Date: 05/10/2013 | PCW Rcv Date: |
| Pump Type: | Source: Shallow |
| Casing Size: 2.00 | Estimated Yield: 5 GPM |
| | Depth Well: 60 feet |
| | Depth Water: 36 feet |


| Water Bearing Stratifications: | Top | Bottom | Description |
|--------------------------------|-----|--------|-------------------------------|
| | 50 | 60 | Sandstone/Gravel/Conglomerate |


| Casing Perforations: | Top | Bottom |
|----------------------|-----|--------|
| | 50 | 60 |





APPENDIX B


Lithologic Soil Sampling Logs


|  | | | | | | | | Sample Name: BG03 | | Date: 9/5/2024 | | | | | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|------------------|--|--|--|--|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | | | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | | | | | |
| | | | | | | | | Job Number: 03A2270052 | | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Chad Hamilton | | Method: Trackhoe | | | | | |
| Coordinates: 32.251409, -104.035612 | | | | | | | | Hole Diameter: 3' | | Total Depth: 18' | | | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | | | |
| D | ND | | N | BG03 | 0 | 0 | SP-SM | Top Soil - Silty Sand, Light to medium brown, coarse to fine grained, Dry, Non-Plastic, Noncohesive, Thickly Bedded, Non-Uniform, Sharp | | | | | | | |
| D | ND | | N | BG03 | 1 | 1 | CCHE | Caliche - Moderately to strongly consolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | | | | | |
| D | ND | | N | BG03 | 2 | 2 | CCHE | Caliche - Moderately consolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | | | | | |
| D | 823 | | N | BG03 | 3 | 3 | | | | | | | | | |
| D | 1,808 | | N | BG03 | 4 | 4 | | | | | | | | | |
| D | 1,254 | | N | BG03 | 5 | 5 | | | | | | | | | |
| D | 1,808 | | N | BG03 | 6 | 6 | | | | | | | | | |
| D | 1,685 | | N | BG03 | 7 | 7 | | | | | | | | | |
| D | 1,568 | | N | BG03 | 8 | 8 | | | | | | | | | |
| D | 1,254 | | N | BG03 | 9 | 9 | | | | | | | | | |
| D | 744 | | N | BG03 | 10 | 10 | | | | | | | | | |
| D | 823 | | N | BG03 | 11 | 11 | | | | | | | | | |
| D | 554 | | N | BG03 | 12 | 12 | | | | | | | | | |


|  ENSOLUM | | Sample Name: BG03 | | Date: 9/5/2024 | | | | |
|---|----------------|---------------------------------|----------|-------------------|-----------------------|----------------|------------------|--|
| | | Site Name: Ray State Slot 4 | | | | | | |
| | | Incident Number: nAPP2417872718 | | | | | | |
| | | Job Number: 03A2270052 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.251409, -104.035612 | | | | Hole Diameter: 3' | | | | |
| | | | | Total Depth: 18' | | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| D | 554 | | N | BG03 | 13 | 13 | CCHE | Caliche - Moderately consolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated |
| D | 1,159 | | N | BG03 | 14 | 14 | CH | Fat Clay with Trace Gravel - Medium to Dark Brown, Very fine grained with trace gravel, Dry, Medium Plasticity, Cohesive, Massive, Non-Uniform, Alluvial, Sharp |
| D | 980 | | N | BG03 | 15 | 15 | | |
| D | 442 | | N | BG03 | 16 | 16 | | |
| D | 823 | | N | BG03 | 17 | 17 | SW | Sand with some Gravel - Red to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial, Gradational |
| D | 554 | | N | BG03 | 18 | 18 | | Hit Refusal at 18' bgs. |
| Total Depth @ 18 feet bgs. | | | | | | | | |


|  ENSOLUM | | | | | | | | Sample Name: BG04 | | Date: 9/19/24 | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|------------------|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | |
| | | | | | | | | Job Number: 03A2270052 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Chad Hamilton | | Method: Trackhoe | |
| Coordinates: 32.252349, -104.033064 | | | | | | | | Hole Diameter: 3' | | Total Depth: 14' | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | | | N | BG04 | 0 | 0 | SP-SM | Top Soil - Silty Sand, Light to medium brown, coarse to fine grained, Dry, Non-Plastic, Noncohesive, Thickly Bedded, Non-Uniform, Sharp | | | |
| D | 409 | | N | BG04 | 1 | 1 | | | | | |
| D | 1,014 | | N | BG04 | 2 | 2 | | | | | |
| D | 1,014 | | N | BG04 | 3 | 3 | | | | | |
| D | 1,294 | | N | BG04 | 4 | 4 | CCHE | Caliche - Moderately to strongly consolidated, White to Light Brown, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated, Gradational | | | |
| D | 1,848 | | N | BG04 | 5 | 5 | | | | | |
| D | 1,848 | | N | BG04 | 6 | 6 | | | | | |
| D | 1,495 | | N | BG04 | 7 | 7 | | | | | |
| D | 851 | | N | BG04 | 8 | 8 | SW | Sand with some Gravel - Med Brown to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial, Gradational | | | |
| D | 706 | | N | BG04 | 9 | 9 | | | | | |
| D | 515 | | N | BG04 | 10 | 10 | | | | | |
| D | 1,103 | | N | BG04 | 11 | 11 | SW | Sand with some Gravel - Red to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial, Abrupt | | | |
| D | 1,193 | | N | BG04 | 12 | 12 | | | | | |


|  ENSOLUM | | Sample Name: BG04 | | Date: 9/19/24 | | | | |
|---|----------------|---------------------------------|--------------------------|---------------|-----------------------|----------------|------------------|---|
| | | Site Name: Ray State Slot 4 | | | | | | |
| | | Incident Number: nAPP2417872718 | | | | | | |
| | | Job Number: 03A2270052 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.252349, -104.033064 | | | Logged By: Chad Hamilton | | Method: Trackhoe | | | |
| | | | Hole Diameter: 3' | | Total Depth: 14' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| D | 515 | | N | BG04 | 13 | 13 | SW | Sand with some Gravel - Red to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial, Abrupt Hit Refusal at 14' bgs. |
| D | | | N | BG04 | 14 | 14 | | |
| Total Depth at 14 ft bgs. | | | | | | | | |


|  | | | | | | | | Sample Name: BG05 | | Date: 9/5/2024 | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|------------------|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | |
| | | | | | | | | Job Number: 03A2270052 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Chad Hamilton | | Method: Trackhoe | |
| Coordinates: 32.251800, -104.035310 | | | | | | | | Hole Diameter: 3' | | Total Depth: | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | | | N | BG05 | 0 | 0 | SP-SM | Top Soil - Silty Sand, Light to medium brown, coarse to fine grained, Dry, Non-Plastic, Noncohesive, Thickly Bedded, Non-Uniform, Sharp | | | |
| D | ND | | N | BG05 | 1 | 1 | CCHE | Caliche - Moderately to strongly consolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | |
| D | ND | | N | BG05 | 2 | 2 | CCHE | Caliche - Moderately consolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | |
| D | ND | | N | BG05 | 3 | 3 | | | | | |
| D | 1,635 | | N | BG05 | 4 | 4 | | | | | |
| D | 1,316 | | N | BG05 | 5 | 5 | | | | | |
| D | 1,220 | | N | BG05 | 6 | 6 | | | | | |
| D | 1,523 | | N | BG05 | 7 | 7 | | | | | |
| D | 1,220 | | N | BG05 | 8 | 8 | | | | | |
| D | 1,041 | | N | BG05 | 9 | 9 | | | | | |
| D | 537 | | N | BG05 | 10 | 10 | | | | | |
| D | 487 | | N | BG05 | 11 | 11 | | | | | |
| D | 800 | | N | BG05 | 12 | 12 | | | | | |


|  | | | | | | | | Sample Name: BG05 | | Date: 9/6/2024 | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|------------------|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | |
| | | | | | | | | Job Number: 03A2270052 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Chad Hamilton | | Method: Trackhoe | |
| Coordinates: 32.251800, -104.035310 | | | | | | | | Hole Diameter: 3' | | Total Depth: | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | 660 | | N | BG05 | 13 | 0 | | Sand with some Gravel - Red to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial, Gradational Hit Refusal at 15' bgs. | | | |
| D | ND | | N | BG05 | 14 | 1 | SW | | | | |
| D | ND | | N | BG05 | 15 | 2 | | | | | |
| Total Depth @ 15 feet bgs. | | | | | | | | | | | |


|  | | | | | | | | Sample Name: BG06 | | Date: 9/5/2024 | | | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|------------------|--|--|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | | | |
| | | | | | | | | Job Number: 03A2270052 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Chad Hamilton | | Method: Trackhoe | | | |
| Coordinates: 32.252070, -104.035147 | | | | | | | | Hole Diameter: 3' | | Total Depth: | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| D | | | N | BG06 | 0 | 0 | SP-SM | Top Soil - Silty Sand, Light to medium brown, coarse to fine grained, Dry, Non-Plastic, Noncohesive, Thickly Bedded, Non-Uniform, Sharp | | | | | |
| D | ND | | N | BG06 | 1 | 1 | CCHE | Caliche - Moderately to strongly consolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | | | |
| D | ND | | N | BG06 | 2 | 2 | CCHE | Caliche - Moderately consolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | | | |
| D | 162 | | N | BG06 | 3 | 3 | | | | | | | |
| D | 1,220 | | N | BG06 | 4 | 4 | | | | | | | |
| D | 1,523 | | N | BG06 | 5 | 5 | | | | | | | |
| D | 1,758 | | N | BG06 | 6 | 6 | | | | | | | |
| D | 1,416 | | N | BG06 | 7 | 7 | | | | | | | |
| D | 1,316 | | N | BG06 | 8 | 8 | | | | | | | |
| D | 1,221 | | N | BG06 | 9 | 9 | | | | | | | |
| D | 1,042 | | N | BG06 | 10 | 10 | | | | | | | |
| D | 386 | | N | BG06 | 11 | 11 | SW | Sand with some Gravel - Red to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial, Gradational | | | | | |
| D | 487 | | N | BG06 | 12 | 12 | | | | | | | |


|  | | | | | | | | Sample Name: BG06 | | Date: 9/6/2024 | | | | | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|------------------|--|--|--|--|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | | | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | | | | | |
| | | | | | | | | Job Number: 03A2270052 | | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Chad Hamilton | | Method: Trackhoe | | | | | |
| Coordinates: 32.252070, -104.035147 | | | | | | | | Hole Diameter: 3' | | Total Depth: | | | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | | | |
| D | 263 | | N | BG06 | 13 | 13 | SW | Sand with some Gravel - Red to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial, Gradational Hit Refusal at 14' bgs. | | | | | | | |
| D | 386 | | N | BG06 | 14 | 14 | | | | | | | | | |
| Total Depth @ 14 feet bgs. | | | | | | | | | | | | | | | |


|  | | | | | | | | Sample Name: BG07 | | Date: 9/19/24 | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|------------------|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | |
| | | | | | | | | Job Number: 03A2270052 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Chad Hamilton | | Method: Trackhoe | |
| Coordinates: 32.252542, -104.033381 | | | | | | | | Hole Diameter: 3' | | Total Depth: 15' | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | | | N | BG07 | 0 | 0 | | | | | |
| D | 1,013 | | N | BG07 | 1 | 1 | CCHE | Caliche - UNconsolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | |
| D | 851 | | N | BG07 | 2 | 2 | SP-SM | Top Soil - Silty Sand, Light to medium brown, coarse to fine grained, Dry, Non-Plastic, Noncohesive, Thickly Bedded, Non-Uniform, Sharp | | | |
| D | 1,103 | | N | BG07 | 3 | 3 | | | | | |
| D | 1,103 | | N | BG07 | 4 | 4 | CCHE | Caliche - Moderately to strongly consolidated, White to Light Brown, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | |
| D | 1,848 | | N | BG07 | 5 | 5 | | | | | |
| D | 2,429 | | N | BG07 | 6 | 6 | | | | | |
| D | 2,419 | | N | BG07 | 7 | 7 | CCHE | Caliche - Moderately to strongly consolidated, Light Brown, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | |
| D | 2,117 | | N | BG07 | 8 | 8 | | | | | |
| D | 2,262 | | N | BG07 | 9 | 9 | | | | | |
| D | 1,848 | | N | BG07 | 10 | 10 | SW | Sand with some Gravel - Med Brown to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial, Gradational | | | |
| D | 448 | | N | BG07 | 11 | 11 | SW | Sand with some Gravel - Red to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial, Gradational | | | |
| D | 409 | | N | BG07 | 12 | 12 | | | | | |


|  ENSOLUM | | Sample Name: BG07 | | Date: 9/19/24 | | | | |
|---|----------------|---------------------------------|----------|--------------------------|-----------------------|------------------|------------------|---|
| | | Site Name: Ray State Slot 4 | | | | | | |
| | | Incident Number: nAPP2417872718 | | | | | | |
| | | Job Number: 03A2270052 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.252542, -104.033381 | | | | Logged By: Chad Hamilton | | Method: Trackhoe | | |
| | | | | Hole Diameter: 3' | | Total Depth: 15' | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| D | 778 | | N | BG07 | 13 | 13 | SW | Sand with some Gravel - Red to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial, Abrupt Hit Refusal at 15' bgs. |
| D | 778 | | N | BG07 | 14 | 14 | | |
| D | 930 | | N | BG07 | 15 | 15 | | |
| Total Depth @ 15 ft bgs. | | | | | | | | |


|  | | | | | | | | Sample Name: PH01 | | Date: 8/23/24 | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|--|-------------------|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | |
| | | | | | | | | Incident Number: Napp2417872718 | | | |
| | | | | | | | | Job Number: 03A2270052 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Bowan Simmons | | Method: Backhoe | |
| Coordinates: 32.252411, -104.033953 | | | | | | | | Hole Diameter: 18" | | Total Depth: 15ft | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | | | N | PH01 | 0 | 0 | CCHE | Caliche - Moderately consolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | |
| D | 1259 | | N | PH01 | 1 | 1 | | | | | |
| D | 1456 | | N | PH01 | 2 | 2 | | | | | |
| D | 1069 | | N | PH01 | 3 | 3 | | | | | |
| D | 677 | | N | PH01 | 4 | 4 | | | | | |
| D | 1254 | | N | PH01 | 5 | 5 | | | | | |
| D | 823 | | N | PH01 | 6 | 6 | | | | | |
| D | 744 | | N | PH01 | 7 | 7 | | | | | |
| D | 1808 | | N | PH01 | 8 | 8 | SW | Sand with some Gravel - Red to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial, Gradational | | | |
| D | 1685 | | N | PH01 | 9 | 9 | | | | | |
| D | 1685 | | N | PH01 | 10 | 10 | | | | | |
| D | 1159 | | N | PH01 | 11 | 11 | | | | | |
| D | 700 | | N | PH01 | 12 | 12 | CCHE | White to light brown caliche, Small to large gravel, Dry, medium to coarse grained sand, Non Plastic, Non Cohesive, Massive bedded, Non Uniform, Gradational | | | |


|  | | | | | | | | Sample Name: PH01 | | Date: 8/23/24 | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|-------------------|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | |
| | | | | | | | | Incident Number: Napp2417872718 | | | |
| | | | | | | | | Job Number: 03A2270052 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Bowan Simmons | | Method: Backhoe | |
| Coordinates: 32.252411, -104.033953 | | | | | | | | Hole Diameter: 18" | | Total Depth: 15ft | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | 840 | | N | PH01 | 13 | 13 | CCHE | White to light brown caliche, Small to large gravel, Dry, medium to coarse grained sand, Non Plastic, Non Cohesive, Massice bedded, Non Uniform, Gradational Hit Refusal at 15' bgs. | | | |
| D | 996 | | N | PH01 | 14 | 14 | | | | | |
| D | 632 | | N | PH01 | 15 | 15 | | | | | |
| Total Depth @ 15 ft bgs. | | | | | | | | | | | |


|  | | | | | | | | Sample Name: PH02 | | Date: 8/27/2024 | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|------------------|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | |
| | | | | | | | | Job Number: 03A2270052 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Brandon Deal | | Method: Trackhoe | |
| Coordinates: 32.252512, -104.034048 | | | | | | | | Hole Diameter: 3ft | | Total Depth: 7ft | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | | | Y | PH02 | 0 | 0 | CCHE | Caliche - Moderately consolidated, White to Light Brown, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | |
| D | 1,075 | | N | PH02 | 1 | 1 | | | | | |
| D | 1,164 | | N | PH02 | 2 | 2 | | | | | |
| D | 1,674 | | N | PH02 | 3 | 3 | | | | | |
| D | 1,075 | | N | PH02 | 4 | 4 | SW | Sand with some Gravel - Brown to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial | | | |
| D | 1,075 | | N | PH02 | 5 | 5 | | | | | |
| D | 459 | | N | PH02 | 6 | 6 | | | | | |
| D | 358 | | N | PH02 | 7 | 7 | | | | | |
| Total Depth @ 7 feet bgs. | | | | | | | | | | | |


|  | | | | | | | | Sample Name: PH03 | | Date: 8/27/2024 | | | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|------------------|--|--|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | | | |
| | | | | | | | | Job Number: 03A2270052 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Brandon Deal | | Method: Trackhoe | | | |
| Coordinates: 32.252585, -104.034158 | | | | | | | | Hole Diameter: 3ft | | Total Depth: 7ft | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| D | | | Y | PH03 | 0 | 0 | CCHE | Caliche - Moderately consolidated, White to Light Pink, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | | | |
| D | 632 | | N | PH03 | 1 | 1 | | | | | | | |
| D | 706 | | N | PH03 | 2 | 2 | | | | | | | |
| D | 767 | | N | PH03 | 3 | 3 | | | | | | | |
| D | 840 | | N | PH03 | 4 | 4 | | | | | | | |
| D | 996 | | N | PH03 | 5 | 5 | SW | Sand with some Gravel - Brown to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial | | | | | |
| D | 358 | | N | PH03 | 6 | 6 | | | | | | | |
| D | 358 | | N | PH03 | 7 | 7 | | | | | | | |
| Total Depth @ 7 ft bgs. | | | | | | | | | | | | | |


|  | | | | | | | | Sample Name: PH04 | | Date: 8/28/2024 | | | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|------------------|--|--|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | | | |
| | | | | | | | | Job Number: 03A2270052 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Brandon Deal | | Method: Trackhoe | | | |
| Coordinates: 32.252636, -104.034233 | | | | | | | | Hole Diameter: 3ft | | Total Depth: 1ft | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| D | | | Y | PH04 | 0 | 0 | CCHE | Caliche - Moderately consolidated, White to Light Brown, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | | | |
| D | 392 | | N | PH04 | 1 | 1 | | | | | | | |
| Total Depth @ 1-foot bgs. | | | | | | | | | | | | | |


|  | | | | | | | | Sample Name: PH05 | | Date: 8/28/2024 | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|-------------------|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | |
| | | | | | | | | Job Number: 03A2270052 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Brandon Deal | | Method: Trackhoe | |
| Coordinates: 32.252351, -104.033858 | | | | | | | | Hole Diameter: 3ft | | Total Depth: 10ft | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | | | Y | PH05 | 0 | 0 | CCHE | Caliche - Moderately consolidated, White to Light Brown, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | |
| D | 677 | | N | PH05 | 1 | 1 | | | | | |
| D | 1,159 | | N | PH05 | 2 | 2 | | | | | |
| D | 1,685 | | N | PH05 | 3 | 3 | | | | | |
| D | 2,077 | | N | PH05 | 4 | 4 | | | | | |
| D | 2,223 | | N | PH05 | 5 | 5 | SW | Sand with some Gravel - Brown to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial | | | |
| D | 1,685 | | N | PH05 | 6 | 6 | | | | | |
| D | 1,159 | | N | PH05 | 7 | 7 | | | | | |
| D | 392 | | N | PH05 | 8 | 8 | | | | | |
| D | 1,159 | | N | PH05 | 9 | 9 | | | | | |
| D | 554 | | N | PH05 | 10 | 10 | | | | | |
| Total Depth @10 ft bgs. | | | | | | | | | | | |


|  | | | | | | | | Sample Name: PH06 | | Date: 8/28/2024 | | | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|-------------------|--|--|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | | | |
| | | | | | | | | Job Number: 03A2270052 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Brandon Deal | | Method: Trackhoe | | | |
| Coordinates: 32.252429, -104.033762 | | | | | | | | Hole Diameter: 3ft | | Total Depth: 11ft | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| D | | | Y | PH06 | 0 | 0 | CCHE | Caliche - Moderately consolidated, White to Light Brown, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | | | |
| D | 1,254 | | N | PH06 | 1 | 1 | | | | | | | |
| D | 2,380 | | N | PH06 | 2 | 2 | | | | | | | |
| D | 2,223 | | N | PH06 | 3 | 3 | | | | | | | |
| D | 2,223 | | N | PH06 | 4 | 4 | | | | | | | |
| D | 2,223 | | N | PH06 | 5 | 5 | SW | Sand with some Gravel - Brown to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial | | | | | |
| D | 1,758 | | N | PH06 | 6 | 6 | | | | | | | |
| D | 2,161 | | N | PH06 | 7 | 7 | | | | | | | |
| D | 1,416 | | N | PH06 | 8 | 8 | | | | | | | |
| D | 956 | | N | PH06 | 9 | 9 | | | | | | | |
| D | 341 | | N | PH06 | 10 | 10 | | | | | | | |
| D | 224 | | N | PH06 | 11 | 11 | | | | | | | |
| Total Depth @11 ft bgs. | | | | | | | | | | | | | |

|  | | | | | | | | Sample Name: PH07 | | Date: 8/29/2024 | | | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|-------------------|--|--|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | | | |
| | | | | | | | | Job Number: 03A2270052 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Brandon Deal | | Method: Trackhoe | | | |
| Coordinates: 32.252270, -104.033768 | | | | | | | | Hole Diameter: 3ft | | Total Depth: 16ft | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| D | | | Y | PH07 | 0 | 0 | CCHE | Caliche - Moderately consolidated, White to Light Brown, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | | | |
| D | 2,475 | | N | PH07 | 1 | 1 | | | | | | | |
| D | 2,312 | | N | PH07 | 2 | 2 | | | | | | | |
| D | 2,312 | | N | PH07 | 3 | 3 | | | | | | | |
| D | 2,016 | | N | PH07 | 4 | 4 | | | | | | | |
| D | 1,758 | | N | PH07 | 5 | 5 | SW | Sand with some Gravel - Brown to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial | | | | | |
| D | 1,416 | | N | PH07 | 6 | 6 | | | | | | | |
| D | 1,758 | | N | PH07 | 7 | 7 | | | | | | | |
| D | 1,220 | | N | PH07 | 8 | 8 | | | | | | | |
| D | 800 | | N | PH07 | 9 | 9 | | | | | | | |
| D | 1,220 | | N | PH07 | 10 | 10 | | | | | | | |
| D | 728 | | N | PH07 | 11 | 11 | | | | | | | |
| D | 873 | | N | PH07 | 12 | 12 | | | | | | | |

|  ENSOLUM | | Sample Name: PH07 | | Date: 9/29/2024 | | | | |
|---|----------------|---------------------------------|-------------------------|-----------------|-----------------------|----------------|------------------|---|
| | | Site Name: Ray State Slot 4 | | | | | | |
| | | Incident Number: nAPP2417872718 | | | | | | |
| | | Job Number: 03A2270052 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.252270, -104.033768 | | | Logged By: Brandon Deal | | Method: Trackhoe | | | |
| | | | Hole Diameter: 3ft | | Total Depth: 16ft | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| D | 1,416 | | N | PH07 | 13 | 13 | SW | Sand with some Gravel - Brown to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial |
| D | 728 | | N | PH07 | 14 | 14 | | |
| D | 660 | | N | PH07 | 15 | 15 | | |
| D | 537 | | N | PH07 | 16 | 16 | | |
| Total Depth @ 16 ft bgs | | | | | | | | |

|  | | | | | | | | Sample Name: PH08 | | Date: 8/9/2024 | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|-------------------|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | |
| | | | | | | | | Job Number: 03A2270052 | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Brandon Deal | | Method: Trackhoe | |
| Coordinates: 32.252281, -104.034060 | | | | | | | | Hole Diameter: 3ft | | Total Depth: 12ft | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | |
| D | | | Y | PH08 | 0 | 0 | CCHE | Caliche - Moderately consolidated, White to Light Brown, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | |
| D | 2,016 | | N | PH08 | 1 | 1 | | | | | |
| D | 1,718 | | N | PH08 | 2 | 2 | | | | | |
| D | 1,635 | | N | PH08 | 3 | 3 | | | | | |
| D | 1,758 | | N | PH08 | 4 | 4 | | | | | |
| D | 1,635 | | N | PH08 | 5 | 5 | SW | Sand with some Gravel - Brown to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial | | | |
| D | 1,416 | | N | PH08 | 6 | 6 | | | | | |
| D | 1,635 | | N | PH08 | 7 | 7 | | | | | |
| D | 800 | | N | PH08 | 8 | 8 | | | | | |
| D | 1,125 | | N | PH08 | 9 | 9 | | | | | |
| D | 728 | | N | PH08 | 10 | 10 | | | | | |
| D | 1,125 | | N | PH08 | 11 | 11 | | | | | |
| D | 537 | | N | PH08 | 12 | 12 | | | | | |

|  | | | | | | | | Sample Name: PH09 | | Date: 8/30/2024 | | | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|-------------------|--|--|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | | | |
| | | | | | | | | Job Number: 03A2270052 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Brandon Deal | | Method: Trackhoe | | | |
| Coordinates: 32.252171, -104.033628 | | | | | | | | Hole Diameter: 3ft | | Total Depth: 16ft | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| D | | | Y | PH09 | 0 | 0 | CCHE | Caliche - Moderately consolidated, White to Light Brown, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated | | | | | |
| D | >3,388 | | N | PH09 | 1 | 1 | | | | | | | |
| D | >3,388 | | N | PH09 | 2 | 2 | | | | | | | |
| D | >3,388 | | N | PH09 | 3 | 3 | | | | | | | |
| D | >3,388 | | N | PH09 | 4 | 4 | | | | | | | |
| D | 2,380 | | N | PH09 | 5 | 5 | | | | | | | |
| D | 2,929 | | N | PH09 | 6 | 6 | SW | Sand with some Gravel - Brown to White, Coarse to Medium Grained with some Medium to large gravel, Dry, Non-Plastic, Noncohesive, Massive, NON-uniform, Fluvial | | | | | |
| D | 2,734 | | N | PH09 | 7 | 7 | | | | | | | |
| D | 2,924 | | N | PH09 | 8 | 8 | | | | | | | |
| D | 2,223 | | N | PH09 | 9 | 9 | | | | | | | |
| D | 1,686 | | N | PH09 | 10 | 10 | | | | | | | |
| D | 901 | | N | PH09 | 11 | 11 | | | | | | | |
| D | 610 | | N | PH09 | 12 | 12 | | | | | | | |

|  | | | | | | | | Sample Name: PH09 | | Date: 8/30/2024 | | | |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--|-------------------|--|--|--|
| | | | | | | | | Site Name: Ray State Slot 4 | | | | | |
| | | | | | | | | Incident Number: nAPP2417872718 | | | | | |
| | | | | | | | | Job Number: 03A2270052 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: Brandon Deal | | Method: Trackhoe | | | |
| Coordinates: 32.252171, -104.033628 | | | | | | | | Hole Diameter: 3ft | | Total Depth: 16ft | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. | | | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | | | | | |
| D | 678 | | N | PH09 | 13 | 13 | CCHE | Caliche - Moderately consolidated, White to Light Brown, 70% Medium to fine grained with 30% medium to large Cobbles, Massive, Slightly disintegrated Hit Refusal at 16ft. | | | | | |
| D | 1,254 | | N | PH09 | 14 | 14 | | | | | | | |
| D | 1,809 | | N | PH09 | 15 | 15 | | | | | | | |
| D | 2,380 | | N | PH09 | 16 | 16 | | | | | | | |
| Total Depth @ 16 ft bgs. | | | | | | | | | | | | | |



APPENDIX C

Photographic Log



Photographic Log

Matador Production Company

Ray State Slot 4

Incident Number nAPP2417872718



Photograph 1
Description: Lease Signage
View: Northwest



Photograph 2
Description: Initial Spill Release
View: Southeast



Photograph 3
Description: Initial Spill Release
View: West



Photograph 4
Description: Initial Spill Release
View: Southeast



Photographic Log

Matador Production Company

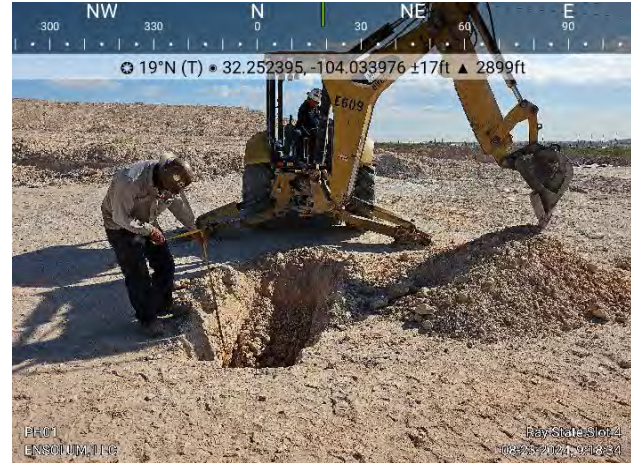
Ray State Slot 4

Incident Number nAPP2417872718



Photograph 5
Description: Release Area
View: Southeast

Date: 6/27/2024



Photograph 6
Description: Potholing PH01
View: North

Date: 8/23/2024



Photograph 7
Description: Potholing PH01
View: Northeast

Date: 8/23/2024



Photograph 8
Description: Potholing PH03
View: Northeast

Date: 8/27/2024



Photographic Log

Matador Production Company

Ray State Slot 4

Incident Number nAPP2417872718



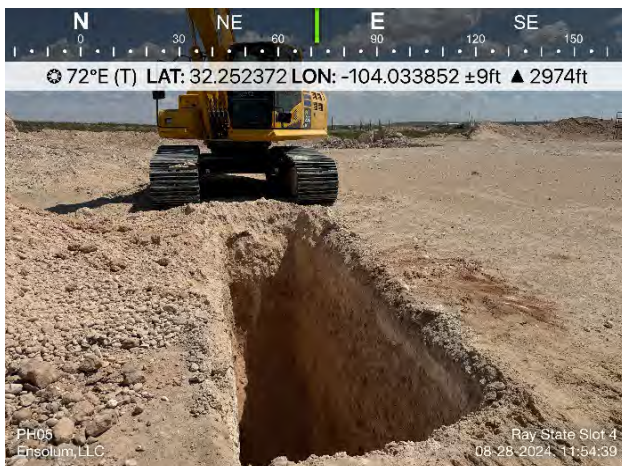
Photograph 9
Description: Potholing PH04
View: Southwest

Date: 8/28/2024



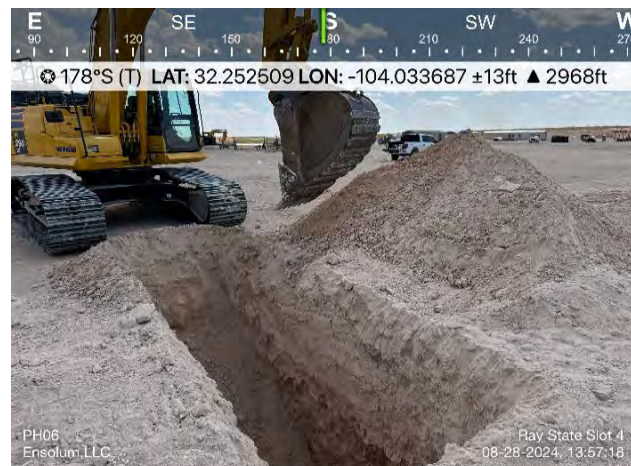
Photograph 10
Description: Potholing PH05
View: Northeast

Date: 8/28/2024



Photograph 11
Description: Potholing PH05
View: East

Date: 8/28/2024



Photograph 12
Description: Potholing PH06
View: South

Date: 8/28/2024



Photographic Log

Matador Production Company

Ray State Slot 4

Incident Number nAPP2417872718



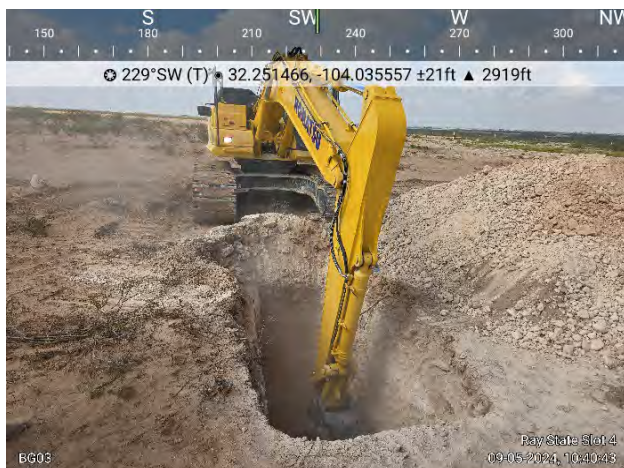
Photograph 13
Description: Potholing PH07
View: Northeast

Date: 8/29/2024



Photograph 14
Description: Potholing PH08
View: Northeast

Date: 8/29/2024



Photograph 15
Description: Background Sampling BG03
View: Southwest

Date: 9/5/2024



Photograph 16
Description: Background Sampling BG05
View: Southwest

Date: 9/6/2024



Photographic Log

Matador Production Company

Ray State Slot 4

Incident Number nAPP2417872718



Photograph 17
Description: BG03
View: West

Date: 9/5/2024



Photograph 18
Description: BG03
View: Southwest

Date: 9/5/2024



Photograph 19
Description: BG03
View: Southeast

Date: 9/5/2024



Photograph 20
Description: BG03
View: Southwest

Date: 9/5/2024



Photographic Log

Matador Production Company

Ray State Slot 4

Incident Number nAPP2417872718



Photograph 21
Description: BG05
View: Southwest

Date: 9/6/2024



Photograph 22
Description: BG05
View: Southwest

Date: 9/6/2024



Photograph 23
Description: BG06
View: East

Date: 9/6/2024



Photograph 24
Description: BG06
View: Southeast

Date: 9/6/2024



Photographic Log

Matador Production Company

Ray State Slot 4

Incident Number nAPP2417872718



Photograph 25 Date: 9/6/2024
Description: Background Sampling BG06
View: Southeast



Photograph 26 Date: 9/19/2024
Description: Background Sampling BG07
View: South



Photograph 27 Date: 9/19/2024
Description: Background Sampling BG07
View: South



Photograph 28 Date: 9/19/2024
Description: Background Sampling BG07
View: Northeast



Photographic Log

Matador Production Company

Ray State Slot 4

Incident Number nAPP2417872718



Photograph 29
Description: BG08
View: South

Date: 9/19/2024



Photograph 30
Description: BG08
View: Southeast

Date: 9/19/2024



Photograph 31
Description: Excavation
View: West

Date: 2/24/2025



Photograph 32
Description: Excavation
View: North

Date: 2/24/2025



Photographic Log

Matador Production Company

Ray State Slot 4

Incident Number nAPP2417872718



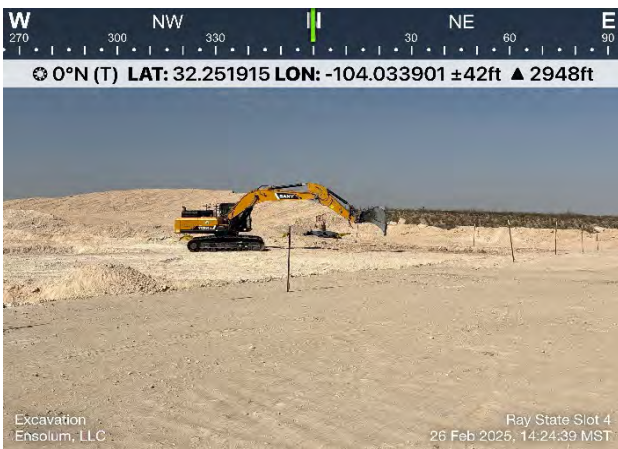
Photograph 33
Description: Excavation
View: Southwest

Date: 2/25/2025



Photograph 34
Description: Excavation
View: South

Date: 2/25/2025



Photograph 35
Description: Excavation
View: North

Date: 2/26/2025



Photograph 36
Description: Excavation
View: Northwest

Date: 2/26/2025



Photographic Log

Matador Production Company

Ray State Slot 4

Incident Number nAPP2417872718



Photograph 37
Description: Excavation
View: South

Date: 2/26/2025



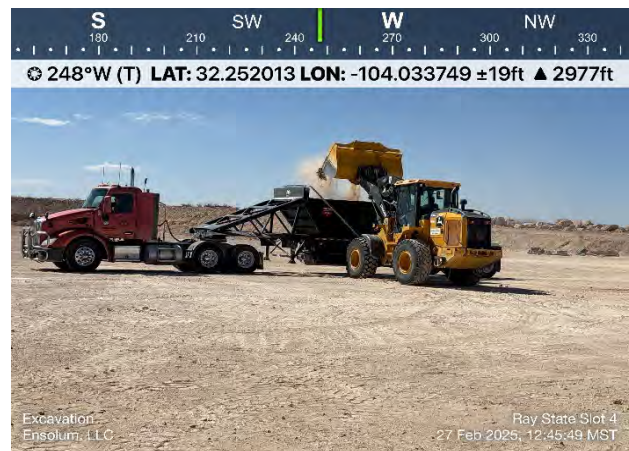
Photograph 38
Description: Excavation
View: North

Date: 2/27/2025



Photograph 39
Description: Excavation
View: West

Date: 2/27/2025



Photograph 40
Description: Excavation
View: Southwest

Date: 2/27/2025



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Ray State Slot 4

Work Order: E409052

Job Number: 23003-0002

Received: 9/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/13/24

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: 9/13/24

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



Project Name: Ray State Slot 4
Workorder: E409052
Date Received: 9/7/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/7/2024 6:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
09/13/24 12:00

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| BG03-0' | E409052-01A | Soil | 09/05/24 | 09/07/24 | Glass Jar, 2 oz. |
| BG03-2' | E409052-02A | Soil | 09/05/24 | 09/07/24 | Glass Jar, 2 oz. |
| BG03-4' | E409052-03A | Soil | 09/05/24 | 09/07/24 | Glass Jar, 2 oz. |
| BG03-6' | E409052-04A | Soil | 09/05/24 | 09/07/24 | Glass Jar, 2 oz. |
| BG03-8' | E409052-05A | Soil | 09/05/24 | 09/07/24 | Glass Jar, 2 oz. |
| BG03-10' | E409052-06A | Soil | 09/05/24 | 09/07/24 | Glass Jar, 2 oz. |
| BG03-12' | E409052-07A | Soil | 09/05/24 | 09/07/24 | Glass Jar, 2 oz. |
| BG03-14' | E409052-08A | Soil | 09/05/24 | 09/07/24 | Glass Jar, 2 oz. |
| BG03-16' | E409052-09A | Soil | 09/05/24 | 09/07/24 | Glass Jar, 2 oz. |
| BG03-18' | E409052-10A | Soil | 09/05/24 | 09/07/24 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/13/2024 12:00:34PM

BG03-0'

E409052-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Benzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Toluene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/09/24 | 09/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 98.4 % | 70-130 | 09/09/24 | 09/10/24 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 93.7 % | 70-130 | 09/09/24 | 09/10/24 | |
| <i>Surrogate: Toluene-d8</i> | | 98.8 % | 70-130 | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/09/24 | 09/10/24 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 98.4 % | 70-130 | 09/09/24 | 09/10/24 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 93.7 % | 70-130 | 09/09/24 | 09/10/24 | |
| <i>Surrogate: Toluene-d8</i> | | 98.8 % | 70-130 | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2436094 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/09/24 | 09/09/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/09/24 | 09/09/24 | |
| <i>Surrogate: n-Nonane</i> | | 78.0 % | 50-200 | 09/09/24 | 09/09/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437011 |
| Chloride | ND | 20.0 | 1 | 09/09/24 | 09/09/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/13/2024 12:00:34PM

BG03-2'

E409052-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Benzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Toluene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/09/24 | 09/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 94.7 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 95.1 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 100 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 94.7 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 95.1 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 100 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2436094 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/09/24 | 09/10/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: n-Nonane | 83.2 % | 50-200 | | 09/09/24 | 09/10/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437011 |
| Chloride | 45.8 | 20.0 | 1 | 09/09/24 | 09/09/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/13/2024 12:00:34PM

BG03-4'
E409052-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Benzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Toluene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/09/24 | 09/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 96.1 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.4 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 102 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 96.1 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.4 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 102 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2436094 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/09/24 | 09/10/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: n-Nonane | 89.5 % | 50-200 | | 09/09/24 | 09/10/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437011 |
| Chloride | 1940 | 40.0 | 2 | 09/09/24 | 09/11/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/13/2024 12:00:34PM

BG03-6'

E409052-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Benzene | ND | 0.0500 | 2 | 09/09/24 | 09/10/24 | |
| Ethylbenzene | ND | 0.0500 | 2 | 09/09/24 | 09/10/24 | |
| Toluene | ND | 0.0500 | 2 | 09/09/24 | 09/10/24 | |
| o-Xylene | ND | 0.0500 | 2 | 09/09/24 | 09/10/24 | |
| p,m-Xylene | ND | 0.100 | 2 | 09/09/24 | 09/10/24 | |
| Total Xylenes | ND | 0.0500 | 2 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 96.3 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.7 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Gasoline Range Organics (C6-C10) | ND | 40.0 | 2 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 96.3 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.7 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2436094 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/09/24 | 09/10/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: n-Nonane | 96.5 % | 50-200 | | 09/09/24 | 09/10/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437011 |
| Chloride | 1790 | 200 | 10 | 09/09/24 | 09/09/24 | |



Sample Data

| | | |
|---|--|-----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/13/2024 12:00:34PM |
|---|--|-----------------------------------|

BG03-8'

E409052-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Benzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Toluene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/09/24 | 09/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 92.0 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 95.0 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 92.0 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 95.0 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2436094 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/09/24 | 09/10/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: n-Nonane | 103 % | 50-200 | | 09/09/24 | 09/10/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437011 |
| Chloride | 1650 | 200 | 10 | 09/09/24 | 09/09/24 | |



Sample Data

| | | |
|---|--|-----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/13/2024 12:00:34PM |
|---|--|-----------------------------------|

BG03-10'

E409052-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| | | | | | | |
| Volatile Organic Compounds by EPA 8260B | mg/kg | mg/kg | Analyst: RKS | | Batch: 2437002 | |
| Benzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Toluene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/09/24 | 09/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| | | | | | | |
| Surrogate: Bromofluorobenzene | | 94.4 % | 70-130 | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 92.2 % | 70-130 | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 09/09/24 | 09/10/24 | |
| | | | | | | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: RKS | | Batch: 2437002 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/09/24 | 09/10/24 | |
| | | | | | | |
| Surrogate: Bromofluorobenzene | | 94.4 % | 70-130 | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 92.2 % | 70-130 | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 09/09/24 | 09/10/24 | |
| | | | | | | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2436094 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/09/24 | 09/10/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/09/24 | 09/10/24 | |
| | | | | | | |
| Surrogate: n-Nonane | | 86.2 % | 50-200 | 09/09/24 | 09/10/24 | |
| | | | | | | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2437011 | |
| Chloride | 844 | 40.0 | 2 | 09/09/24 | 09/09/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/13/2024 12:00:34PM

BG03-12'

E409052-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Benzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Toluene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/09/24 | 09/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 99.6 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 92.4 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 99.6 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 92.4 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2436094 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/09/24 | 09/10/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: n-Nonane | 89.1 % | 50-200 | | 09/09/24 | 09/10/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437011 |
| Chloride | 897 | 40.0 | 2 | 09/09/24 | 09/09/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/13/2024 12:00:34PM

BG03-14'

E409052-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Benzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Toluene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/09/24 | 09/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 94.7 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 90.2 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 94.7 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 90.2 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2436094 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/09/24 | 09/10/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: n-Nonane | 91.4 % | 50-200 | | 09/09/24 | 09/10/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437011 |
| Chloride | 1040 | 40.0 | 2 | 09/09/24 | 09/09/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/13/2024 12:00:34PM

BG03-16'

E409052-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Benzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Toluene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/09/24 | 09/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 95.7 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 93.3 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 95.7 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 93.3 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2436094 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/09/24 | 09/10/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: n-Nonane | 174 % | 50-200 | | 09/09/24 | 09/10/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437011 |
| Chloride | 396 | 20.0 | 1 | 09/09/24 | 09/09/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/13/2024 12:00:34PM

BG03-18'

E409052-10

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Benzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Toluene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/09/24 | 09/10/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 94.0 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.7 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RKS | | Batch: 2437002 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: Bromofluorobenzene | 94.0 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.7 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/09/24 | 09/10/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2436094 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/09/24 | 09/10/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/09/24 | 09/10/24 | |
| Surrogate: n-Nonane | 87.6 % | 50-200 | | 09/09/24 | 09/10/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437011 |
| Chloride | 511 | 20.0 | 1 | 09/09/24 | 09/09/24 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|----------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/13/2024 12:00:34PM |

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 (2437002-BLK1) Prepared: 09/09/24 Analyzed: 09/10/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| 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: Bromofluorobenzene | 0.487 | | 0.500 | | 97.3 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.471 | | 0.500 | | 94.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.524 | | 0.500 | | 105 | 70-130 | | | |

LCS (2437002-BS1) Prepared: 09/09/24 Analyzed: 09/10/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene | 2.16 | 0.0250 | 2.50 | | 86.4 | 70-130 | | | |
| Ethylbenzene | 2.21 | 0.0250 | 2.50 | | 88.5 | 70-130 | | | |
| Toluene | 2.35 | 0.0250 | 2.50 | | 93.9 | 70-130 | | | |
| o-Xylene | 2.35 | 0.0250 | 2.50 | | 94.1 | 70-130 | | | |
| p,m-Xylene | 4.66 | 0.0500 | 5.00 | | 93.2 | 70-130 | | | |
| Total Xylenes | 7.01 | 0.0250 | 7.50 | | 93.5 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.478 | | 0.500 | | 95.5 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.479 | | 0.500 | | 95.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.512 | | 0.500 | | 102 | 70-130 | | | |

Matrix Spike (2437002-MS1) Source: E409052-07 Prepared: 09/09/24 Analyzed: 09/10/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|--|--|--|
| Benzene | 2.29 | 0.0250 | 2.50 | ND | 91.5 | 48-131 | | | |
| Ethylbenzene | 2.31 | 0.0250 | 2.50 | ND | 92.6 | 45-135 | | | |
| Toluene | 2.47 | 0.0250 | 2.50 | ND | 98.7 | 48-130 | | | |
| o-Xylene | 2.51 | 0.0250 | 2.50 | ND | 101 | 43-135 | | | |
| p,m-Xylene | 4.94 | 0.0500 | 5.00 | ND | 98.7 | 43-135 | | | |
| Total Xylenes | 7.45 | 0.0250 | 7.50 | ND | 99.4 | 43-135 | | | |
| Surrogate: Bromofluorobenzene | 0.491 | | 0.500 | | 98.2 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.485 | | 0.500 | | 97.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.518 | | 0.500 | | 104 | 70-130 | | | |

Matrix Spike Dup (2437002-MSD1) Source: E409052-07 Prepared: 09/09/24 Analyzed: 09/10/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|-------|----|--|
| Benzene | 2.27 | 0.0250 | 2.50 | ND | 90.8 | 48-131 | 0.856 | 23 | |
| Ethylbenzene | 2.20 | 0.0250 | 2.50 | ND | 88.1 | 45-135 | 4.91 | 27 | |
| Toluene | 2.35 | 0.0250 | 2.50 | ND | 94.0 | 48-130 | 4.88 | 24 | |
| o-Xylene | 2.41 | 0.0250 | 2.50 | ND | 96.5 | 43-135 | 4.12 | 27 | |
| p,m-Xylene | 4.79 | 0.0500 | 5.00 | ND | 95.9 | 43-135 | 2.96 | 27 | |
| Total Xylenes | 7.21 | 0.0250 | 7.50 | ND | 96.1 | 43-135 | 3.35 | 27 | |
| Surrogate: Bromofluorobenzene | 0.492 | | 0.500 | | 98.4 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.511 | | 0.500 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.508 | | 0.500 | | 102 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: 9/13/2024 12:00:34PM |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2437002-BLK1) Prepared: 09/09/24 Analyzed: 09/10/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.487 | | 0.500 | | 97.3 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.471 | | 0.500 | | 94.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.524 | | 0.500 | | 105 | 70-130 | | | |

LCS (2437002-BS2) Prepared: 09/09/24 Analyzed: 09/10/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 48.2 | 20.0 | 50.0 | | 96.4 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.461 | | 0.500 | | 92.1 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.464 | | 0.500 | | 92.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.512 | | 0.500 | | 102 | 70-130 | | | |

Matrix Spike (2437002-MS2) Source: E409052-07 Prepared: 09/09/24 Analyzed: 09/10/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 47.7 | 20.0 | 50.0 | ND | 95.4 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.490 | | 0.500 | | 97.9 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.478 | | 0.500 | | 95.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.518 | | 0.500 | | 104 | 70-130 | | | |

Matrix Spike Dup (2437002-MSD2) Source: E409052-07 Prepared: 09/09/24 Analyzed: 09/10/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 49.0 | 20.0 | 50.0 | ND | 98.0 | 70-130 | 2.74 | 20 | |
| Surrogate: Bromofluorobenzene | 0.505 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.466 | | 0.500 | | 93.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.516 | | 0.500 | | 103 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|----------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/13/2024 12:00:34PM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2436094-BLK1) | | | | | Prepared: 09/09/24 Analyzed: 09/09/24 | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 44.7 | | 50.0 | | 89.3 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2436094-BS1) | | | | | Prepared: 09/09/24 Analyzed: 09/09/24 | | | | |
| Diesel Range Organics (C10-C28) | 212 | 25.0 | 250 | | 85.0 | 38-132 | | | |
| Surrogate: n-Nonane | 46.4 | | 50.0 | | 92.9 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2436094-MS1) | | | | | Source: E409052-01 | | Prepared: 09/09/24 Analyzed: 09/09/24 | | |
| Diesel Range Organics (C10-C28) | 225 | 25.0 | 250 | ND | 90.0 | 38-132 | | | |
| Surrogate: n-Nonane | 47.6 | | 50.0 | | 95.2 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2436094-MSD1) | | | | | Source: E409052-01 | | Prepared: 09/09/24 Analyzed: 09/09/24 | | |
| Diesel Range Organics (C10-C28) | 224 | 25.0 | 250 | ND | 89.5 | 38-132 | 0.635 | 20 | |
| Surrogate: n-Nonane | 47.0 | | 50.0 | | 94.0 | 50-200 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|----------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/13/2024 12:00:34PM |

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 (2437011-BLK1) | | | | | Prepared: 09/09/24 Analyzed: 09/09/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2437011-BS1) | | | | | Prepared: 09/09/24 Analyzed: 09/09/24 | | | | |
| Chloride | 249 | 20.0 | 250 | | 99.6 | 90-110 | | | |
| Matrix Spike (2437011-MS1) | | | | | Source: E409052-03 | | Prepared: 09/09/24 Analyzed: 09/10/24 | | |
| Chloride | 2250 | 40.0 | 250 | 1940 | 123 | 80-120 | | | M4 |
| Matrix Spike Dup (2437011-MSD1) | | | | | Source: E409052-03 | | Prepared: 09/09/24 Analyzed: 09/10/24 | | |
| Chloride | 2220 | 40.0 | 250 | 1940 | 112 | 80-120 | 1.24 | 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: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/13/24 12:00 |

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



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# | | | Job Number | | | | NM CO UT TX | | | |
| Project: Ray State Slot 4 | | | | | Address: 3122 National Parks Hwy | | | E 409052 | | | 23002-0002 | | | | 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/RO 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 | |
| 9:00 | 9/5/24 | Soil | 1 | BG03-0' | | 1 | | | | | | X | | | | | | |
| 9:06 | 9/5/24 | Soil | 1 | BG03-2' | | 2 | | | | | | X | | | | | | |
| 9:12 | 9/5/24 | Soil | 1 | BG03-4' | | 3 | | | | | | X | | | | | | |
| 9:47 | 9/5/24 | Soil | 1 | BG03-6' | | 4 | | | | | | X | | | | | | |
| 10:11 | 9/5/24 | Soil | 1 | BG03-8' | | 5 | | | | | | X | | | | | | |
| 10:17 | 9/5/24 | Soil | 1 | BG03-10' | | 6 | | | | | | X | | | | | | |
| 10:53 | 9/5/24 | Soil | 1 | BG03-12' | | 7 | | | | | | X | | | | | | |
| 11:13 | 9/5/24 | Soil | 1 | BG03-14' | | 8 | | | | | | X | | | | | | |
| 11:23 | 9/5/24 | Soil | 1 | BG03-16' | | 9 | | | | | | X | | | | | | |
| 13:15 | 9/5/24 | Soil | 1 | BG03-18' | | 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: Chad Hamilton and Bowan Simmons | | | | | | | | | | | | | | | | | | |
| 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 / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u> | | | | | | | | | | |
| 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

Envirotech Analytical Laboratory

Printed: 9/9/2024 11:14:22AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

| | | | | | |
|---------|-------------------------|-----------------|----------------------------|----------------|---------------|
| Client: | Matador Resources, LLC. | Date Received: | 09/07/24 06:00 | Work Order ID: | E409052 |
| Phone: | (972) 371-5200 | Date Logged In: | 09/07/24 07:03 | Logged In By: | Raina Schwanz |
| Email: | agiovngo@ensolum.com | Due Date: | 09/13/24 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? 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: Ray State Slot 4

Work Order: E409068

Job Number: 23003-0002

Received: 9/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/16/24

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: 9/16/24

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



Project Name: Ray State Slot 4
Workorder: E409068
Date Received: 9/10/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/10/2024 6:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | |
|---|--|-----------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 09/16/24 13:02 |
|---|--|-----------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| BG05-0' | E409068-01A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG05-2' | E409068-02A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG05-4' | E409068-03A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG05-6' | E409068-04A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG05-8' | E409068-05A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG05-10' | E409068-06A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG05-12' | E409068-07A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG05-14' | E409068-08A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG06-0' | E409068-09A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG06-2' | E409068-10A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG06-4' | E409068-11A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG06-6' | E409068-12A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG06-8' | E409068-13A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG06-10' | E409068-14A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG06-12' | E409068-15A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |
| BG06-14' | E409068-16A | Soil | 09/06/24 | 09/10/24 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG05-0'

E409068-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Benzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 91.1 % | 70-130 | 09/10/24 | 09/11/24 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 92.7 % | 70-130 | 09/10/24 | 09/11/24 | |
| <i>Surrogate: Toluene-d8</i> | | 103 % | 70-130 | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/10/24 | 09/11/24 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 91.1 % | 70-130 | 09/10/24 | 09/11/24 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 92.7 % | 70-130 | 09/10/24 | 09/11/24 | |
| <i>Surrogate: Toluene-d8</i> | | 103 % | 70-130 | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2437043 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/11/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/11/24 | |
| <i>Surrogate: n-Nonane</i> | | 68.8 % | 50-200 | 09/10/24 | 09/11/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2437045 |
| Chloride | ND | 20.0 | 1 | 09/10/24 | 09/10/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG05-2'

E409068-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2437035 | |
| Benzene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.100 | 2 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 92.8 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 99.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2437035 | |
| Gasoline Range Organics (C6-C10) | ND | 40.0 | 2 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 92.8 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 99.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2437043 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/11/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: n-Nonane | 75.7 % | 50-200 | | 09/10/24 | 09/11/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2437045 | |
| Chloride | 30.3 | 20.0 | 1 | 09/10/24 | 09/10/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG05-4'

E409068-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Benzene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.100 | 2 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 97.7 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 95.1 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 103 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Gasoline Range Organics (C6-C10) | ND | 40.0 | 2 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 97.7 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 95.1 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 103 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2437043 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/11/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: n-Nonane | 70.2 % | 50-200 | | 09/10/24 | 09/11/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2437045 |
| Chloride | 1690 | 40.0 | 2 | 09/10/24 | 09/10/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG05-6'
E409068-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Benzene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.100 | 2 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 95.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 92.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 103 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Gasoline Range Organics (C6-C10) | ND | 40.0 | 2 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 95.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 92.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 103 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2437043 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/11/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: n-Nonane | 69.2 % | 50-200 | | 09/10/24 | 09/11/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2437045 |
| Chloride | 1380 | 40.0 | 2 | 09/10/24 | 09/10/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG05-8'

E409068-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Benzene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.100 | 2 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0500 | 2 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 93.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 91.7 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Gasoline Range Organics (C6-C10) | ND | 40.0 | 2 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 93.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 91.7 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2437043 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/11/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: n-Nonane | 69.1 % | 50-200 | | 09/10/24 | 09/11/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2437045 |
| Chloride | 1280 | 20.0 | 1 | 09/10/24 | 09/10/24 | |



Sample Data

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name: Ray State Slot 4

Project Number: 23003-0002

Project Manager: Ashley Giovengo

Reported:

9/16/2024 1:02:39PM

BG05-10'

E409068-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Benzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 94.2 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 98.1 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 94.2 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 98.1 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2437043 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/11/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: n-Nonane | 72.8 % | 50-200 | | 09/10/24 | 09/11/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2437045 |
| Chloride | 640 | 20.0 | 1 | 09/10/24 | 09/10/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG05-12'

E409068-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Benzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 95.9 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 93.1 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 95.9 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 93.1 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2437043 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/11/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: n-Nonane | 71.4 % | 50-200 | | 09/10/24 | 09/11/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2437045 |
| Chloride | 907 | 20.0 | 1 | 09/10/24 | 09/10/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG05-14'

E409068-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Benzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 94.2 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 95.8 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 102 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 94.2 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 95.8 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 102 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2437043 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/11/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: n-Nonane | 64.4 % | 50-200 | | 09/10/24 | 09/11/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2437045 |
| Chloride | 138 | 20.0 | 1 | 09/10/24 | 09/10/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG06-0'

E409068-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2437035 | |
| Benzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 92.4 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.2 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2437035 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 92.4 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.2 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2437043 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/11/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: n-Nonane | 71.6 % | 50-200 | | 09/10/24 | 09/11/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2437045 | |
| Chloride | ND | 20.0 | 1 | 09/10/24 | 09/10/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/16/2024 1:02:39PM |
|---|--|----------------------------------|

BG06-2'

E409068-10

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2437035 | |
| Benzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 95.4 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 97.6 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 102 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2437035 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 95.4 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 97.6 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 102 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2437043 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/11/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: n-Nonane | 72.9 % | 50-200 | | 09/10/24 | 09/11/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2437045 | |
| Chloride | ND | 20.0 | 1 | 09/10/24 | 09/10/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG06-4'

E409068-11

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Benzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 92.8 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 96.4 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 100 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 92.8 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 96.4 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 100 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2437043 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/12/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/12/24 | |
| Surrogate: n-Nonane | 68.9 % | 50-200 | | 09/10/24 | 09/12/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2437045 |
| Chloride | 1110 | 20.0 | 1 | 09/10/24 | 09/10/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/16/2024 1:02:39PM |
|---|--|----------------------------------|

BG06-6'

E409068-12

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2437035 | |
| Benzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 95.5 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 89.3 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 99.2 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2437035 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 95.5 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 89.3 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 99.2 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2437043 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/12/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/12/24 | |
| Surrogate: n-Nonane | 73.2 % | 50-200 | | 09/10/24 | 09/12/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2437045 | |
| Chloride | 1650 | 40.0 | 2 | 09/10/24 | 09/10/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG06-8'

E409068-13

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Benzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 95.9 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 97.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 100 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 95.9 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 97.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 100 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2437043 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/12/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/12/24 | |
| Surrogate: n-Nonane | 64.4 % | 50-200 | | 09/10/24 | 09/12/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2437045 |
| Chloride | 1380 | 20.0 | 1 | 09/10/24 | 09/10/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG06-10'

E409068-14

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2437035 | |
| Benzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 93.4 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 96.7 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2437035 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 93.4 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 96.7 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2437043 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/12/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/12/24 | |
| Surrogate: n-Nonane | 62.0 % | 50-200 | | 09/10/24 | 09/12/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2437045 | |
| Chloride | 824 | 20.0 | 1 | 09/10/24 | 09/10/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG06-12'

E409068-15

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Benzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 93.6 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 102 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 93.6 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.0 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 102 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2437043 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/12/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/12/24 | |
| Surrogate: n-Nonane | 57.7 % | 50-200 | | 09/10/24 | 09/12/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2437045 |
| Chloride | 601 | 20.0 | 1 | 09/10/24 | 09/10/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/16/2024 1:02:39PM

BG06-14'

E409068-16

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Benzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Toluene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/10/24 | 09/11/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 92.5 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.1 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 100 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2437035 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/10/24 | 09/11/24 | |
| Surrogate: Bromofluorobenzene | 92.5 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.1 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Surrogate: Toluene-d8 | 100 % | 70-130 | | 09/10/24 | 09/11/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2437043 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/10/24 | 09/12/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/10/24 | 09/12/24 | |
| Surrogate: n-Nonane | 62.7 % | 50-200 | | 09/10/24 | 09/12/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2437045 |
| Chloride | 213 | 20.0 | 1 | 09/10/24 | 09/11/24 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/16/2024 1:02:39PM |

Volatile Organic Compounds by EPA 8260B

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 (2437035-BLK1)

Prepared: 09/10/24 Analyzed: 09/11/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| 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 | 0.469 | | 0.500 | | 93.8 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.471 | | 0.500 | | 94.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.506 | | 0.500 | | 101 | 70-130 | | | |

LCS (2437035-BS1)

Prepared: 09/10/24 Analyzed: 09/11/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene | 2.27 | 0.0250 | 2.50 | | 90.8 | 70-130 | | | |
| Ethylbenzene | 2.30 | 0.0250 | 2.50 | | 92.2 | 70-130 | | | |
| Toluene | 2.44 | 0.0250 | 2.50 | | 97.8 | 70-130 | | | |
| o-Xylene | 2.44 | 0.0250 | 2.50 | | 97.7 | 70-130 | | | |
| p,m-Xylene | 4.89 | 0.0500 | 5.00 | | 97.8 | 70-130 | | | |
| Total Xylenes | 7.34 | 0.0250 | 7.50 | | 97.8 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.469 | | 0.500 | | 93.8 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.479 | | 0.500 | | 95.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.509 | | 0.500 | | 102 | 70-130 | | | |

Matrix Spike (2437035-MS1)

Source: E409068-12

Prepared: 09/10/24 Analyzed: 09/11/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|--|--|--|
| Benzene | 2.21 | 0.0250 | 2.50 | ND | 88.4 | 48-131 | | | |
| Ethylbenzene | 2.22 | 0.0250 | 2.50 | ND | 88.8 | 45-135 | | | |
| Toluene | 2.35 | 0.0250 | 2.50 | ND | 94.0 | 48-130 | | | |
| o-Xylene | 2.43 | 0.0250 | 2.50 | ND | 97.1 | 43-135 | | | |
| p,m-Xylene | 4.89 | 0.0500 | 5.00 | ND | 97.8 | 43-135 | | | |
| Total Xylenes | 7.32 | 0.0250 | 7.50 | ND | 97.5 | 43-135 | | | |
| Surrogate: Bromofluorobenzene | 0.471 | | 0.500 | | 94.1 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.472 | | 0.500 | | 94.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.502 | | 0.500 | | 100 | 70-130 | | | |

Matrix Spike Dup (2437035-MSD1)

Source: E409068-12

Prepared: 09/10/24 Analyzed: 09/11/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|------|----|--|
| Benzene | 2.27 | 0.0250 | 2.50 | ND | 90.9 | 48-131 | 2.79 | 23 | |
| Ethylbenzene | 2.29 | 0.0250 | 2.50 | ND | 91.5 | 45-135 | 3.02 | 27 | |
| Toluene | 2.42 | 0.0250 | 2.50 | ND | 96.8 | 48-130 | 2.91 | 24 | |
| o-Xylene | 2.49 | 0.0250 | 2.50 | ND | 99.6 | 43-135 | 2.62 | 27 | |
| p,m-Xylene | 5.02 | 0.0500 | 5.00 | ND | 100 | 43-135 | 2.57 | 27 | |
| Total Xylenes | 7.51 | 0.0250 | 7.50 | ND | 100 | 43-135 | 2.59 | 27 | |
| Surrogate: Bromofluorobenzene | 0.492 | | 0.500 | | 98.3 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.496 | | 0.500 | | 99.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.498 | | 0.500 | | 99.6 | 70-130 | | | |



QC Summary Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/16/2024 1:02:39PM |
|---|--|----------------------------------|

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2437035-BLK1)

Prepared: 09/10/24 Analyzed: 09/11/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.469 | | 0.500 | | 93.8 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.471 | | 0.500 | | 94.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.506 | | 0.500 | | 101 | 70-130 | | | |

LCS (2437035-BS2)

Prepared: 09/10/24 Analyzed: 09/11/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 50.8 | 20.0 | 50.0 | | 102 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.464 | | 0.500 | | 92.7 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.480 | | 0.500 | | 96.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.517 | | 0.500 | | 103 | 70-130 | | | |

Matrix Spike (2437035-MS2)

Source: E409068-12

Prepared: 09/10/24 Analyzed: 09/11/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 50.4 | 20.0 | 50.0 | ND | 101 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.482 | | 0.500 | | 96.4 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.473 | | 0.500 | | 94.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.521 | | 0.500 | | 104 | 70-130 | | | |

Matrix Spike Dup (2437035-MSD2)

Source: E409068-12

Prepared: 09/10/24 Analyzed: 09/11/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 51.1 | 20.0 | 50.0 | ND | 102 | 70-130 | 1.47 | 20 | |
| Surrogate: Bromofluorobenzene | 0.482 | | 0.500 | | 96.3 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.482 | | 0.500 | | 96.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.512 | | 0.500 | | 102 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/16/2024 1:02:39PM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2437043-BLK1) Prepared: 09/10/24 Analyzed: 09/11/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 39.0 | | 50.0 | | 77.9 | 50-200 | | | |

LCS (2437043-BS1) Prepared: 09/10/24 Analyzed: 09/11/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 212 | 25.0 | 250 | | 84.9 | 38-132 | | | |
| Surrogate: n-Nonane | 39.4 | | 50.0 | | 78.8 | 50-200 | | | |

Matrix Spike (2437043-MS1) Source: E409068-04 Prepared: 09/10/24 Analyzed: 09/11/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 149 | 25.0 | 250 | ND | 59.5 | 38-132 | | | |
| Surrogate: n-Nonane | 42.9 | | 50.0 | | 85.7 | 50-200 | | | |

Matrix Spike Dup (2437043-MSD1) Source: E409068-04 Prepared: 09/10/24 Analyzed: 09/11/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 162 | 25.0 | 250 | ND | 64.9 | 38-132 | 8.67 | 20 | |
| Surrogate: n-Nonane | 33.2 | | 50.0 | | 66.4 | 50-200 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/16/2024 1:02:39PM |

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 (2437045-BLK1) | | | | | Prepared: 09/10/24 Analyzed: 09/10/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2437045-BS1) | | | | | Prepared: 09/10/24 Analyzed: 09/10/24 | | | | |
| Chloride | 254 | 20.0 | 250 | | 102 | 90-110 | | | |
| Matrix Spike (2437045-MS1) | | | | | Source: E409068-07 | | Prepared: 09/10/24 Analyzed: 09/10/24 | | |
| Chloride | 1140 | 20.0 | 250 | 907 | 92.6 | 80-120 | | | |
| Matrix Spike Dup (2437045-MSD1) | | | | | Source: E409068-07 | | Prepared: 09/10/24 Analyzed: 09/10/24 | | |
| Chloride | 1150 | 20.0 | 250 | 907 | 99.1 | 80-120 | 1.43 | 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: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/16/24 13:02 |

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 2

| 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: Ray State Slot 4 | | | | | Address: 3122 National Parks Hwy | | E409068 | 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 |
| | | | | | | | | | | | | | | | | | |
| 8:09 | 9/6/24 | Soil | 1 | BG05-0' | | 1 | | | | | | X | | | | | |
| 8:15 | | | | BG05-2' | | 2 | | | | | | X | | | | | |
| 8:28 | | | | BG05-4' | | 3 | | | | | | X | | | | | |
| 8:34 | | | | BG05-6' | | 4 | | | | | | X | | | | | |
| 8:41 | | | | BG05-8' | | 5 | | | | | | X | | | | | |
| 8:50 | | | | BG05-10' | | 6 | | | | | | X | | | | | |
| 8:56 | | | | BG05-12' | | 7 | | | | | | X | | | | | |
| 9:07 | | | | BG05-14' | | 8 | | | | | | X | | | | | |
| 10:33 | | | | BG06-0' | | 9 | | | | | | X | | | | | |
| 10:54 | | | | BG06-2' | | 10 | | | | | | X | | | | | |
| Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@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: Chad Hamilton, Bowen Simmons | | | | | | | | | | | | | | | | | |
| 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: 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

Chain of Custody

[illegible]

Envirotech Analytical Laboratory

Printed: 9/10/2024 9:51:26AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

| | | | | | |
|---------|-------------------------|-----------------|----------------------------|----------------|---------------|
| Client: | Matador Resources, LLC. | Date Received: | 09/10/24 06:00 | Work Order ID: | E409068 |
| Phone: | (972) 371-5200 | Date Logged In: | 09/10/24 05:36 | Logged In By: | Keyliegh Hall |
| Email: | agiovngo@ensolum.com | Due Date: | 09/16/24 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? 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: N/A

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: Ray State Slot 4

Work Order: E409189

Job Number: 23003-0002

Received: 9/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/27/24

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: 9/27/24

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



Project Name: Ray State Slot 4
Workorder: E409189
Date Received: 9/23/2024 5:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/23/2024 5:30:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
09/27/24 13:13

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| BG07 - 0' | E409189-01A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG07 - 2' | E409189-02A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG07 - 4' | E409189-03A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG07 - 6' | E409189-04A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG07 - 8' | E409189-05A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG07 - 10' | E409189-06A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG07 - 12' | E409189-07A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG07 - 14' | E409189-08A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG07 - 15' | E409189-09A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG04 - 0' | E409189-10A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG04 - 2' | E409189-11A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG04 - 4' | E409189-12A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG04 - 6' | E409189-13A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG04 - 8' | E409189-14A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG04 - 10' | E409189-15A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG04 - 12' | E409189-16A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |
| BG04 - 14' | E409189-17A | Soil | 09/19/24 | 09/23/24 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 1:13:18PM

BG07 - 0'

E409189-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/26/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 89.6 % | 70-130 | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 96.2 % | 70-130 | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | 103 % | 50-200 | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 140 | 20.0 | 1 | 09/23/24 | 09/23/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 1:13:18PM

BG07 - 2'

E409189-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/26/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 90.2 % | 70-130 | | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 97.6 % | 70-130 | | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 98.9 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 813 | 20.0 | 1 | 09/23/24 | 09/23/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 1:13:18PM

BG07 - 4'

E409189-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/26/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 91.3 % | 70-130 | | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 97.6 % | 70-130 | | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 96.5 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 1440 | 20.0 | 1 | 09/23/24 | 09/23/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 1:13:18PM

BG07 - 6'

E409189-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/26/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 91.3 % | 70-130 | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 96.5 % | 70-130 | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | 91.9 % | 50-200 | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 2040 | 40.0 | 2 | 09/23/24 | 09/23/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/27/2024 1:13:18PM |
|---|--|----------------------------------|

BG07 - 8'

E409189-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/26/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 91.2 % | 70-130 | | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 96.8 % | 70-130 | | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 98.4 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 2290 | 40.0 | 2 | 09/23/24 | 09/23/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 1:13:18PM

BG07 - 10'

E409189-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/26/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 90.4 % | 70-130 | | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 96.1 % | 70-130 | | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 101 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 1890 | 40.0 | 2 | 09/23/24 | 09/23/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 1:13:18PM

BG07 - 12'

E409189-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/26/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 91.7 % | 70-130 | | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/26/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 96.8 % | 70-130 | | 09/23/24 | 09/26/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 95.8 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 81.6 | 20.0 | 1 | 09/23/24 | 09/23/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/27/2024 1:13:18PM |
|---|--|----------------------------------|

BG07 - 14'
E409189-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 91.7 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/27/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 96.5 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| Surrogate: n-Nonane | 99.2 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 766 | 20.0 | 1 | 09/23/24 | 09/23/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/27/2024 1:13:18PM |
|---|--|----------------------------------|

BG07 - 15'
E409189-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 92.3 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/27/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 95.8 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| Surrogate: n-Nonane | 96.8 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 839 | 20.0 | 1 | 09/23/24 | 09/23/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/27/2024 1:13:18PM |
|---|--|----------------------------------|

BG04 - 0'

E409189-10

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 92.7 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 96.6 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 97.6 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | ND | 20.0 | 1 | 09/23/24 | 09/23/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/27/2024 1:13:18PM |
|---|--|----------------------------------|

BG04 - 2'

E409189-11

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 92.0 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 95.7 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 97.4 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 830 | 20.0 | 1 | 09/23/24 | 09/23/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 1:13:18PM

BG04 - 4'

E409189-12

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 91.8 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 95.1 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 89.7 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 1610 | 20.0 | 1 | 09/23/24 | 09/23/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/27/2024 1:13:18PM

BG04 - 6'

E409189-13

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 93.7 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 95.4 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 71.7 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 1590 | 20.0 | 1 | 09/23/24 | 09/23/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/27/2024 1:13:18PM |
|---|--|----------------------------------|

BG04 - 8'

E409189-14

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 93.3 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 95.6 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 99.1 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 1140 | 20.0 | 1 | 09/23/24 | 09/23/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/27/2024 1:13:18PM |
|---|--|----------------------------------|

BG04 - 10'
E409189-15

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 93.1 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/27/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 95.4 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| Surrogate: n-Nonane | 101 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 524 | 20.0 | 1 | 09/23/24 | 09/23/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/27/2024 1:13:18PM |
|---|--|----------------------------------|

BG04 - 12'
E409189-16

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 94.1 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 95.4 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 100 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 1290 | 20.0 | 1 | 09/23/24 | 09/24/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/27/2024 1:13:18PM |
|---|--|----------------------------------|

BG04 - 14'
E409189-17

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Benzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| Toluene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/23/24 | 09/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 92.8 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2439003 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/23/24 | 09/27/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 95.0 % | 70-130 | | 09/23/24 | 09/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: AF | | Batch: 2438163 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/21/24 | 09/26/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/21/24 | 09/26/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 102 % | 50-200 | | 09/21/24 | 09/26/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2439014 | |
| Chloride | 509 | 20.0 | 1 | 09/23/24 | 09/24/24 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/27/2024 1:13:18PM |

Volatile Organics by EPA 8021B

Analyst: CG

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

Blank (2439003-BLK1) Prepared: 09/23/24 Analyzed: 09/26/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| 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 | 7.30 | | 8.00 | | 91.2 | 70-130 | | | |

LCS (2439003-BS1) Prepared: 09/23/24 Analyzed: 09/26/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 5.06 | 0.0250 | 5.00 | | 101 | 70-130 | | | |
| Ethylbenzene | 4.87 | 0.0250 | 5.00 | | 97.4 | 70-130 | | | |
| Toluene | 4.98 | 0.0250 | 5.00 | | 99.5 | 70-130 | | | |
| o-Xylene | 4.85 | 0.0250 | 5.00 | | 97.1 | 70-130 | | | |
| p,m-Xylene | 9.90 | 0.0500 | 10.0 | | 99.0 | 70-130 | | | |
| Total Xylenes | 14.8 | 0.0250 | 15.0 | | 98.4 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.28 | | 8.00 | | 91.0 | 70-130 | | | |

LCS Dup (2439003-BSD1) Prepared: 09/23/24 Analyzed: 09/26/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|------|----|--|
| Benzene | 4.51 | 0.0250 | 5.00 | | 90.2 | 70-130 | 11.6 | 20 | |
| Ethylbenzene | 4.33 | 0.0250 | 5.00 | | 86.6 | 70-130 | 11.7 | 20 | |
| Toluene | 4.43 | 0.0250 | 5.00 | | 88.5 | 70-130 | 11.7 | 20 | |
| o-Xylene | 4.31 | 0.0250 | 5.00 | | 86.2 | 70-130 | 11.8 | 20 | |
| p,m-Xylene | 8.80 | 0.0500 | 10.0 | | 88.0 | 70-130 | 11.8 | 20 | |
| Total Xylenes | 13.1 | 0.0250 | 15.0 | | 87.4 | 70-130 | 11.8 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.39 | | 8.00 | | 92.3 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/27/2024 1:13:18PM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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

Blank (2439003-BLK1) Prepared: 09/23/24 Analyzed: 09/26/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.73 | | 8.00 | | 96.7 | 70-130 | | | |

LCS (2439003-BS2) Prepared: 09/23/24 Analyzed: 09/26/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 41.6 | 20.0 | 50.0 | | 83.3 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.82 | | 8.00 | | 97.8 | 70-130 | | | |

LCS Dup (2439003-BSD2) Prepared: 09/23/24 Analyzed: 09/26/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 48.1 | 20.0 | 50.0 | | 96.1 | 70-130 | 14.3 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.89 | | 8.00 | | 98.7 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/27/2024 1:13:18PM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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

Blank (2438163-BLK1) Prepared: 09/21/24 Analyzed: 09/26/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 51.2 | | 50.0 | | 102 | 50-200 | | | |

LCS (2438163-BS1) Prepared: 09/21/24 Analyzed: 09/26/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 257 | 25.0 | 250 | | 103 | 38-132 | | | |
| Surrogate: n-Nonane | 51.5 | | 50.0 | | 103 | 50-200 | | | |

LCS Dup (2438163-BSD1) Prepared: 09/21/24 Analyzed: 09/26/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|-----|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 261 | 25.0 | 250 | | 104 | 38-132 | 1.34 | 20 | |
| Surrogate: n-Nonane | 51.6 | | 50.0 | | 103 | 50-200 | | | |



QC Summary Data

| | | |
|---|--|--------------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/27/2024 1:13:18PM |
|---|--|--------------------------------------|

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|---------------------------------|------|------|-----|-----|---------------------------------------|--------|---------------------------------------|----|--|
| Blank (2439014-BLK1) | | | | | Prepared: 09/23/24 Analyzed: 09/23/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2439014-BS1) | | | | | Prepared: 09/23/24 Analyzed: 09/23/24 | | | | |
| Chloride | 262 | 20.0 | 250 | | 105 | 90-110 | | | |
| Matrix Spike (2439014-MS1) | | | | | Source: E409189-02 | | Prepared: 09/23/24 Analyzed: 09/23/24 | | |
| Chloride | 1070 | 20.0 | 250 | 813 | 102 | 80-120 | | | |
| Matrix Spike Dup (2439014-MSD1) | | | | | Source: E409189-02 | | Prepared: 09/23/24 Analyzed: 09/23/24 | | |
| Chloride | 1060 | 20.0 | 250 | 813 | 97.5 | 80-120 | 1.12 | 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: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/27/24 13:13 |

- 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 2

| Client Information | | | | Invoice Information | | Lab Use Only | | TAT | | | | State | | | | | |
|---|--------------|--------|-------------------|--------------------------------------|--------------|---------------------|-----------------|---|--------------|-------------|----------------|-------------|----------------|---------------|------|-----|------|
| Client: Matador Production Company | | | | Company: Ensolum LLC | | Lab WO# | | 1D 2D 3D Std | | | | NM CO UT TX | | | | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | E409189 | | Job Number | | | | 2300310002 | | | | | |
| 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 |
| 10:06 | 9/19/24 | Soil | 1 | BG07-0' | | 1 | | | | | | X | | | | | |
| 10:10 | | | 1 | BG07-2' | | 2 | | | | | | X | | | | | |
| 10:16 | | | | BG07-4' | | 3 | | | | | | X | | | | | |
| 10:24 | | | | BG07-6' | | 4 | | | | | | X | | | | | |
| 10:36 | | | | BG07-8' | | 5 | | | | | | X | | | | | |
| 10:44 | | | | BG07-10' | | 6 | | | | | | X | | | | | |
| 10:54 | | | | BG07-12' | | 7 | | | | | | X | | | | | |
| 11:13 | | | | BG07-14' | | 8 | | | | | | X | | | | | |
| 11:16 | | | | BG07-15' | | 9 | | | | | | X | | | | | |
| 12:41 | | | | BG08-0' | | 10 | | | | | | X | | | | | |
| Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com | | | | | | | | | | | | | | | | | |
| I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. | | | | | | | | | | | | | | | | | |
| Sampled by: Bowan Simmons and Chad Hamilton | | | | | | | | | | | | | | | | | |
| 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 <u>4</u> | | | | | | | | | |
| 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. | | | | | | | | | | | | | | | | | |



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Chain of Custody

Page 2 of 2

| Client Information | | | | Invoice Information | | Lab Use Only | | TAT | | | | State | | | | | |
|---|--------------|---------|-------------------|--------------------------------------|--------------|---------------------|-----------------|---|--------------|-------------|----------------|-------------|----------------|---------------|------|-----|------|
| Client: Matador Production Company | | | | Company: Ensolum LLC | | Lab WO# | | 1D 2D 3D Std | | | | NM CO UT TX | | | | | |
| Project: | | | | Address: 3122 National Parks Hwy | | E 409189 | | Job Number | | | | 2303.002 | | | | | |
| 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 |
| 12:44 | 9/19/24 | Soil | 1 | BG08-2 | | 11 | | | | | | X | | | | | |
| 12:52 | | | | BG08-4 | | 12 | | | | | | X | | | | | |
| 13:03 | | | | BG08-6 | | 13 | | | | | | X | | | | | |
| 13:13 | | | | BG08-8 | | 14 | | | | | | X | | | | | |
| 13:21 | | | | BG08-10 | | 15 | | | | | | X | | | | | |
| 13:30 | | | | BG08-12 | | 16 | | | | | | X | | | | | |
| 13:44 | | | | BG08-14 | | 17 | | | | | | 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: Bowan Simmons and Chad Hamilton | | | | | | | | | | | | | | | | | |
| 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 / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4 | | | | | | | | | |
| Michelle Gonzales | | 9/20/24 | 0801 | Michelle Gonzales | | 9/20/24 | 0801 | | | | | | | | | | |
| Michelle Gonzales | | 9/20/24 | 1830 | Michelle Gonzales | | 9/20/24 | 1830 | | | | | | | | | | |
| Michelle Gonzales | | 9/20/24 | 2400 | Michelle Gonzales | | 9/23/24 | 0530 | | | | | | | | | | |
| 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

Envirotech Analytical Laboratory

Printed: 9/24/2024 9:24:42AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

| | | | | | |
|---------|-------------------------|-----------------|----------------------------|----------------|--------------|
| Client: | Matador Resources, LLC. | Date Received: | 09/23/24 05:30 | Work Order ID: | E409189 |
| Phone: | (972) 371-5200 | Date Logged In: | 09/20/24 15:09 | Logged In By: | Caitlin Mars |
| Email: | agiovngo@ensolum.com | Due Date: | 09/24/24 17:00 (1 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/Resolution

Client asked to change sample names for samples 10-17 to BG04. Also asked for prelims on Chlorides only before final report for BGDOC analysis.

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 Instruction

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

Date



envirotech Inc.

Chain of Custody

Page 1 of 2

| Client Information | | | | Invoice Information | | Lab Use Only | | TAT | | | | State | | | | | |
|---|--------------|--------|-------------------|----------------------------------|--------------|--------------------------------------|-----------------|--|--------------|-------------|----------------|----------------|----------------|---------------|------|-----|------|
| Client: Matador Production Company | | | | Company: Ensolum LLC | | Lab WO# E409189 | | Job Number 23003.0002 | | | | 1D 2D 3D Std X | | | | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | City, State, Zip: Carlsbad NM, 88220 | | | | | | NM CO UT TX X | | | | | |
| Project Manager: Ashley Gioveno | | | | Phone: 575-988-0055 | | Email: agioveno@ensolum.com | | | | | | | | | | | |
| Address: 3122 National Parks Hwy | | | | Miscellaneous: | | | | | | | | | | | | | |
| City, State, Zip: Carlsbad NM, 88220 | | | | | | | | | | | | | | | | | |
| Phone: 575-988-0055 | | | | | | | | | | | | | | | | | |
| Email: agioveno@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 |
| 10:06 | 9/19/24 | Soil | 1 | BG07-0' | | 1 | | | | | | X | | | | | |
| 10:10 | | | 1 | BG07-2' | | 2 | | | | | | X | | | | | |
| 10:16 | | | | BG07-4' | | 3 | | | | | | X | | | | | |
| 10:24 | | | | BG07-6' | | 4 | | | | | | X | | | | | |
| 10:36 | | | | BG07-8' | | 5 | | | | | | X | | | | | |
| 10:44 | | | | BG07-10' | | 6 | | | | | | X | | | | | |
| 10:54 | | | | BG07-12' | | 7 | | | | | | X | | | | | |
| 11:13 | | | | BG07-14' | | 8 | | | | | | X | | | | | |
| 11:16 | | | | BG07-15' | | 9 | | | | | | X | | | | | |
| 12:41 | | | | BG07-0' BG04-0' | | 10 | | | | | | X | | | | | |
| Additional Instructions: Please CC: cburton@ensolum.com, agioveno@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: Bowan Simmons and Chad Hamilton | | | | | | | | | | | | | | | | | |
| 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

Chain of Custody

Page 2 of 2

| 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: | | | | Address: 3122 National Parks Hwy | | | | E 409189 | | 2303.002 | | | | | 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 |
| 12:44 | 9/19/24 | Soil | 1 | BG04-2 BG04-2' | | 11 | | | | | | X | | | | | | | |
| 12:52 | | | | BG04-4 BG04-4 | | 12 | | | | | | X | | | | | | | |
| 13:03 | | | | BG04-6 BG04-6 | | 13 | | | | | | X | | | | | | | |
| 13:13 | | | | BG04-8 BG04-8 | | 14 | | | | | | X | | | | | | | |
| 13:21 | | | | BG04-10 BG04-10 | | 15 | | | | | | X | | | | | | | |
| 13:30 | | | | BG04-12 BG04-12 | | 16 | | | | | | X | | | | | | | |
| 13:44 | | | | BG04-14 BG04-14 | | 17 | | | | | | 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: Bowan Simmons and Chad Hamilton | | | | | | | | | | | | | | | | | | | |
| 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: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u> | | | | | | | | | | | |
| <i>B.S.</i> | | 9/20/24 | 0801 | <i>Michelle Gonzalez</i> | | 9-20-24 | 0801 | | | | | | | | | | | | |
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | | | | | | | | | | | | |
| <i>Michelle Gonzalez</i> | | 9-20-24 | 1830 | <i>J.H.</i> | | 9-20-24 | 1830 | | | | | | | | | | | | |
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | | | | | | | | | | | | |
| <i>J.H.</i> | | 9-20-24 | 2400 | <i>Kyleigh R. Heald</i> | | 9-23-24 | 0530 | | | | | | | | | | | | |
| 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

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Ray State Slot 4

Work Order: E408222

Job Number: 23003-0002

Received: 8/27/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/3/24

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: 9/3/24

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



Project Name: Ray State Slot 4
Workorder: E408222
Date Received: 8/27/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/27/2024 5:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | |
|---|--|-----------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 09/03/24 12:51 |
|---|--|-----------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| PH01 - 0' | E408222-01A | Soil | 08/23/24 | 08/27/24 | Glass Jar, 2 oz. |
| PH01 - 3' | E408222-02A | Soil | 08/23/24 | 08/27/24 | Glass Jar, 2 oz. |
| PH01 - 5' | E408222-03A | Soil | 08/23/24 | 08/27/24 | Glass Jar, 2 oz. |
| PH01 - 7' | E408222-04A | Soil | 08/23/24 | 08/27/24 | Glass Jar, 2 oz. |
| PH01 - 9' | E408222-05A | Soil | 08/23/24 | 08/27/24 | Glass Jar, 2 oz. |
| PH01 - 11' | E408222-06A | Soil | 08/23/24 | 08/27/24 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/3/2024 12:51:00PM

PH01 - 0'

E408222-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435028 |
| Benzene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Toluene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/27/24 | 08/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 108 % | 70-130 | 08/27/24 | 08/27/24 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 89.3 % | 70-130 | 08/27/24 | 08/27/24 | |
| <i>Surrogate: Toluene-d8</i> | | 105 % | 70-130 | 08/27/24 | 08/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435028 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/27/24 | 08/27/24 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 108 % | 70-130 | 08/27/24 | 08/27/24 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 89.3 % | 70-130 | 08/27/24 | 08/27/24 | |
| <i>Surrogate: Toluene-d8</i> | | 105 % | 70-130 | 08/27/24 | 08/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2435031 |
| Diesel Range Organics (C10-C28) | 91.4 | 25.0 | 1 | 08/27/24 | 08/30/24 | |
| Oil Range Organics (C28-C36) | 114 | 50.0 | 1 | 08/27/24 | 08/30/24 | |
| <i>Surrogate: n-Nonane</i> | | 89.6 % | 50-200 | 08/27/24 | 08/30/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2435030 |
| Chloride | 25700 | 1000 | 50 | 08/27/24 | 08/27/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/3/2024 12:51:00PM

PH01 - 3'

E408222-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435028 |
| Benzene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Toluene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/27/24 | 08/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Surrogate: Bromofluorobenzene | | 120 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 88.8 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: Toluene-d8 | | 106 % | 70-130 | 08/27/24 | 08/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435028 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/27/24 | 08/27/24 | |
| Surrogate: Bromofluorobenzene | | 120 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 88.8 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: Toluene-d8 | | 106 % | 70-130 | 08/27/24 | 08/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2435031 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/27/24 | 08/30/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/27/24 | 08/30/24 | |
| Surrogate: n-Nonane | | 88.3 % | 50-200 | 08/27/24 | 08/30/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2435030 |
| Chloride | 1580 | 40.0 | 2 | 08/27/24 | 08/27/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/3/2024 12:51:00PM |
|---|--|----------------------------------|

PH01 - 5'

E408222-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435028 | |
| Benzene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Toluene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/27/24 | 08/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Surrogate: Bromofluorobenzene | | 107 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 89.7 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 08/27/24 | 08/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435028 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/27/24 | 08/27/24 | |
| Surrogate: Bromofluorobenzene | | 107 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 89.7 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 08/27/24 | 08/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435031 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/27/24 | 08/30/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/27/24 | 08/30/24 | |
| Surrogate: n-Nonane | | 92.4 % | 50-200 | 08/27/24 | 08/30/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2435030 | |
| Chloride | 1040 | 20.0 | 1 | 08/27/24 | 08/27/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/3/2024 12:51:00PM

PH01 - 7'

E408222-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435028 |
| Benzene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Toluene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/27/24 | 08/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Surrogate: Bromofluorobenzene | | 109 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 87.9 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 08/27/24 | 08/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435028 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/27/24 | 08/27/24 | |
| Surrogate: Bromofluorobenzene | | 109 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 87.9 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 08/27/24 | 08/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2435031 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/27/24 | 08/30/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/27/24 | 08/30/24 | |
| Surrogate: n-Nonane | | 90.9 % | 50-200 | 08/27/24 | 08/30/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2435030 |
| Chloride | 587 | 20.0 | 1 | 08/27/24 | 08/27/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/3/2024 12:51:00PM

PH01 - 9'

E408222-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435028 |
| Benzene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Toluene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/27/24 | 08/27/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/27/24 | 08/27/24 | |
| Surrogate: Bromofluorobenzene | | 108 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 88.9 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 08/27/24 | 08/27/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435028 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/27/24 | 08/27/24 | |
| Surrogate: Bromofluorobenzene | | 108 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 88.9 % | 70-130 | 08/27/24 | 08/27/24 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 08/27/24 | 08/27/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2435031 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/27/24 | 08/30/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/27/24 | 08/30/24 | |
| Surrogate: n-Nonane | | 86.5 % | 50-200 | 08/27/24 | 08/30/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2435030 |
| Chloride | 2760 | 40.0 | 2 | 08/27/24 | 08/27/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/3/2024 12:51:00PM

PH01 - 11'

E408222-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435028 |
| Benzene | ND | 0.0250 | 1 | 08/27/24 | 08/28/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/27/24 | 08/28/24 | |
| Toluene | ND | 0.0250 | 1 | 08/27/24 | 08/28/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/27/24 | 08/28/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/27/24 | 08/28/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/27/24 | 08/28/24 | |
| Surrogate: Bromofluorobenzene | | 109 % | 70-130 | 08/27/24 | 08/28/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 90.6 % | 70-130 | 08/27/24 | 08/28/24 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 08/27/24 | 08/28/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435028 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/27/24 | 08/28/24 | |
| Surrogate: Bromofluorobenzene | | 109 % | 70-130 | 08/27/24 | 08/28/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 90.6 % | 70-130 | 08/27/24 | 08/28/24 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 08/27/24 | 08/28/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2435031 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/27/24 | 08/30/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/27/24 | 08/30/24 | |
| Surrogate: n-Nonane | | 87.9 % | 50-200 | 08/27/24 | 08/30/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2435030 |
| Chloride | 1020 | 20.0 | 1 | 08/27/24 | 08/27/24 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/3/2024 12:51:00PM |

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2435028-BLK1) Prepared: 08/27/24 Analyzed: 08/27/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| 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 | 0.553 | | 0.500 | | 111 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.449 | | 0.500 | | 89.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.522 | | 0.500 | | 104 | 70-130 | | | |

LCS (2435028-BS1) Prepared: 08/27/24 Analyzed: 08/27/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene | 2.15 | 0.0250 | 2.50 | | 86.0 | 70-130 | | | |
| Ethylbenzene | 2.33 | 0.0250 | 2.50 | | 93.2 | 70-130 | | | |
| Toluene | 2.38 | 0.0250 | 2.50 | | 95.1 | 70-130 | | | |
| o-Xylene | 2.57 | 0.0250 | 2.50 | | 103 | 70-130 | | | |
| p,m-Xylene | 5.14 | 0.0500 | 5.00 | | 103 | 70-130 | | | |
| Total Xylenes | 7.71 | 0.0250 | 7.50 | | 103 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.546 | | 0.500 | | 109 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.464 | | 0.500 | | 92.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.530 | | 0.500 | | 106 | 70-130 | | | |

Matrix Spike (2435028-MS1) Source: E408221-07 Prepared: 08/27/24 Analyzed: 08/27/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|--|--|--|
| Benzene | 2.16 | 0.0250 | 2.50 | ND | 86.3 | 48-131 | | | |
| Ethylbenzene | 2.33 | 0.0250 | 2.50 | ND | 93.4 | 45-135 | | | |
| Toluene | 2.37 | 0.0250 | 2.50 | ND | 94.8 | 48-130 | | | |
| o-Xylene | 2.59 | 0.0250 | 2.50 | ND | 104 | 43-135 | | | |
| p,m-Xylene | 5.15 | 0.0500 | 5.00 | ND | 103 | 43-135 | | | |
| Total Xylenes | 7.74 | 0.0250 | 7.50 | ND | 103 | 43-135 | | | |
| Surrogate: Bromofluorobenzene | 0.540 | | 0.500 | | 108 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.467 | | 0.500 | | 93.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.515 | | 0.500 | | 103 | 70-130 | | | |

Matrix Spike Dup (2435028-MSD1) Source: E408221-07 Prepared: 08/27/24 Analyzed: 08/27/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|--------|----|--|
| Benzene | 2.10 | 0.0250 | 2.50 | ND | 83.9 | 48-131 | 2.77 | 23 | |
| Ethylbenzene | 2.35 | 0.0250 | 2.50 | ND | 94.0 | 45-135 | 0.662 | 27 | |
| Toluene | 2.36 | 0.0250 | 2.50 | ND | 94.5 | 48-130 | 0.275 | 24 | |
| o-Xylene | 2.60 | 0.0250 | 2.50 | ND | 104 | 43-135 | 0.616 | 27 | |
| p,m-Xylene | 5.13 | 0.0500 | 5.00 | ND | 103 | 43-135 | 0.399 | 27 | |
| Total Xylenes | 7.74 | 0.0250 | 7.50 | ND | 103 | 43-135 | 0.0582 | 27 | |
| Surrogate: Bromofluorobenzene | 0.578 | | 0.500 | | 116 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.459 | | 0.500 | | 91.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.521 | | 0.500 | | 104 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: 9/3/2024 12:51:00PM |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | |

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 (2435028-BLK1) Prepared: 08/27/24 Analyzed: 08/27/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.553 | | 0.500 | | 111 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.449 | | 0.500 | | 89.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.522 | | 0.500 | | 104 | 70-130 | | | |

LCS (2435028-BS2) Prepared: 08/27/24 Analyzed: 08/27/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 48.1 | 20.0 | 50.0 | | 96.1 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.545 | | 0.500 | | 109 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.470 | | 0.500 | | 93.9 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.541 | | 0.500 | | 108 | 70-130 | | | |

Matrix Spike (2435028-MS2) Source: E408221-07 Prepared: 08/27/24 Analyzed: 08/27/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 51.9 | 20.0 | 50.0 | ND | 104 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.594 | | 0.500 | | 119 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.457 | | 0.500 | | 91.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.529 | | 0.500 | | 106 | 70-130 | | | |

Matrix Spike Dup (2435028-MSD2) Source: E408221-07 Prepared: 08/27/24 Analyzed: 08/27/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 50.0 | 20.0 | 50.0 | ND | 100 | 70-130 | 3.82 | 20 | |
| Surrogate: Bromofluorobenzene | 0.583 | | 0.500 | | 117 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.454 | | 0.500 | | 90.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.539 | | 0.500 | | 108 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/3/2024 12:51:00PM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2435031-BLK1) | | | | | Prepared: 08/27/24 Analyzed: 08/27/24 | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 44.0 | | 50.0 | | 87.9 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2435031-BS1) | | | | | Prepared: 08/27/24 Analyzed: 08/27/24 | | | | |
| Diesel Range Organics (C10-C28) | 221 | 25.0 | 250 | | 88.4 | 38-132 | | | |
| Surrogate: n-Nonane | 46.3 | | 50.0 | | 92.7 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2435031-MS1) | | | | | Source: E408217-02 | | Prepared: 08/27/24 Analyzed: 08/28/24 | | |
| Diesel Range Organics (C10-C28) | 242 | 25.0 | 250 | ND | 97.0 | 38-132 | | | |
| Surrogate: n-Nonane | 45.7 | | 50.0 | | 91.4 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2435031-MSD1) | | | | | Source: E408217-02 | | Prepared: 08/27/24 Analyzed: 08/28/24 | | |
| Diesel Range Organics (C10-C28) | 242 | 25.0 | 250 | ND | 96.7 | 38-132 | 0.311 | 20 | |
| Surrogate: n-Nonane | 43.2 | | 50.0 | | 86.4 | 50-200 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/3/2024 12:51:00PM |

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 (2435030-BLK1) | | | | | Prepared: 08/27/24 Analyzed: 08/27/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2435030-BS1) | | | | | Prepared: 08/27/24 Analyzed: 08/27/24 | | | | |
| Chloride | 256 | 20.0 | 250 | | 102 | 90-110 | | | |
| Matrix Spike (2435030-MS1) | | | | | Source: E408221-02 | | Prepared: 08/27/24 Analyzed: 08/27/24 | | |
| Chloride | 1260 | 20.0 | 250 | 1070 | 76.7 | 80-120 | | | M4 |
| Matrix Spike Dup (2435030-MSD1) | | | | | Source: E408221-02 | | Prepared: 08/27/24 Analyzed: 08/27/24 | | |
| Chloride | 1280 | 20.0 | 250 | 1070 | 86.2 | 80-120 | 1.88 | 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: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/03/24 12:51 |

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



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# | | Job Number | | 1D | 2D | 3D | Std | NM | CO | UT | TX | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | E408222 | | 23003-0062 | | | | | 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 | | | | | | | | | | | | | | | | | | | |
| 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 | EPA Program | | | | |
| | | | | | | | | | | | | | | | | SDWA | CWA | RCRA | |
| | | | | | | | | | | | | | | | | Compliance | Y | or | N |
| | | | | | | | | | | | | | | | | PWSID # | | | |
| | | | | | | | | | | | | | | | | Remarks | | | |
| 9:13 | 8/23/2024 | Soil | 1 | PH01 - 0' | | 1 | | | | | | X | | | | | | | |
| 9:21 | 8/23/2024 | Soil | 1 | PH01 - 3' | | 2 | | | | | | X | | | | | | | |
| 9:54 | 8/23/2024 | Soil | 1 | PH01 - 5' | | 3 | | | | | | X | | | | | | | |
| 10:36 | 8/23/2024 | Soil | 1 | PH01 - 7' | | 4 | | | | | | X | | | | | | | |
| 11:00 | 8/23/2024 | Soil | 1 | PH01 - 9' | | 5 | | | | | | X | | | | | | | |
| 11:27 | 8/23/2024 | Soil | 1 | PH01 - 11' | | 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: Israel Estrella and Bowan Simmons | | | | | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) | | Date | Time | Received 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 | | | | | | | |
| Michelle Gonzales | | 8/26/24 | 10:15 | Michelle Gonzales | | 8/26/24 | 10:15 | J.H. | | 8-26-24 | 1745 | Lab Use Only | | | | | | | |
| J.H. | | 8-26-24 | 1735 | J.H. | | 8-26-24 | 1745 | Kendall R. Heller | | 8-27-24 | 0500 | Received on ice: Y / N | | | | | | | |
| J.H. | | 8-26-24 | 2345 | Kendall R. Heller | | 8-27-24 | 0500 | | | | | T1 T2 T3 | | | | | | | |
| J.H. | | 8-26-24 | 2345 | Kendall R. Heller | | 8-27-24 | 0500 | | | | | 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. | | | | | | | | | | | | | | | | | | | |



Envirotech Analytical Laboratory

Printed: 8/27/2024 10:09:29AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

| | | | | | |
|---------|-------------------------|-----------------|----------------------------|----------------|----------|
| Client: | Matador Resources, LLC. | Date Received: | 08/27/24 06:00 | Work Order ID: | E408222 |
| Phone: | (972) 371-5200 | Date Logged In: | 08/26/24 16:52 | Logged In By: | Noe Soto |
| Email: | agiovngo@ensolum.com | Due Date: | 09/03/24 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? 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: Ray State Slot 4

Work Order: E408250

Job Number: 23003-0002

Received: 8/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/4/24

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: 9/4/24

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



Project Name: Ray State Slot 4
Workorder: E408250
Date Received: 8/29/2024 8:00:24AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/29/2024 8:00:24AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | |
|---|--|-----------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 09/04/24 13:34 |
|---|--|-----------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| PH01 - 13' | E408250-01A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |
| PH02 - 0' | E408250-02A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |
| PH02 - 2' | E408250-03A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |
| PH02 - 4 | E408250-04A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |
| PH02 - 6 | E408250-05A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |
| PH02 - 7 | E408250-06A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |
| PH03 - 0 | E408250-07A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |
| PH03 - 2 | E408250-08A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |
| PH03 - 4 | E408250-09A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |
| PH03 - 6 | E408250-10A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |
| PH03 - 7' | E408250-11A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |
| SS01 - 0' | E408250-12A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |
| SS02 - 0' | E408250-13A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 1:34:40PM

PH01 - 13'

E408250-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435100 |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 102 % | 70-130 | 08/29/24 | 08/30/24 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 93.8 % | 70-130 | 08/29/24 | 08/30/24 | |
| <i>Surrogate: Toluene-d8</i> | | 106 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435100 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/30/24 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 102 % | 70-130 | 08/29/24 | 08/30/24 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 93.8 % | 70-130 | 08/29/24 | 08/30/24 | |
| <i>Surrogate: Toluene-d8</i> | | 106 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2435102 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| <i>Surrogate: n-Nonane</i> | | 75.5 % | 50-200 | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: JM | | Batch: 2435096 |
| Chloride | 678 | 20.0 | 1 | 08/29/24 | 08/29/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 1:34:40PM

PH02 - 0'

E408250-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | 103 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 93.7 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | 105 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | 103 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 93.7 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | 105 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435102 | |
| Diesel Range Organics (C10-C28) | 85.3 | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | 63.2 | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| Surrogate: n-Nonane | 75.8 % | 50-200 | | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2435096 | |
| Chloride | 2790 | 100 | 5 | 08/29/24 | 08/29/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 1:34:40PM

PH02 - 2'

E408250-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | 99.2 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 93.3 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | 106 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | 99.2 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 93.3 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | 106 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435102 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| Surrogate: n-Nonane | 78.8 % | 50-200 | | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2435096 | |
| Chloride | 1730 | 40.0 | 2 | 08/29/24 | 08/29/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 1:34:40PM

PH02 - 4

E408250-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/31/24 | |
| Surrogate: Bromofluorobenzene | 102 % | 70-130 | | 08/29/24 | 08/31/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 93.1 % | 70-130 | | 08/29/24 | 08/31/24 | |
| Surrogate: Toluene-d8 | 103 % | 70-130 | | 08/29/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/31/24 | |
| Surrogate: Bromofluorobenzene | 102 % | 70-130 | | 08/29/24 | 08/31/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 93.1 % | 70-130 | | 08/29/24 | 08/31/24 | |
| Surrogate: Toluene-d8 | 103 % | 70-130 | | 08/29/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435102 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| Surrogate: n-Nonane | 71.6 % | 50-200 | | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2435096 | |
| Chloride | 1590 | 20.0 | 1 | 08/29/24 | 08/29/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 1:34:40PM

PH02 - 6

E408250-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435100 |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.0 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435100 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.0 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2435102 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| Surrogate: n-Nonane | | 72.6 % | 50-200 | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: JM | | Batch: 2435096 |
| Chloride | 400 | 20.0 | 1 | 08/29/24 | 08/29/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 1:34:40PM

PH02 - 7

E408250-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | 99.9 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 92.6 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | 106 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | 99.9 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 92.6 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | 106 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435102 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| Surrogate: n-Nonane | 69.9 % | 50-200 | | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2435096 | |
| Chloride | 308 | 20.0 | 1 | 08/29/24 | 08/29/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 1:34:40PM

PH03 - 0

E408250-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | | 104 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.7 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | | 104 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.7 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435102 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| Surrogate: n-Nonane | | 74.7 % | 50-200 | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2435096 | |
| Chloride | 905 | 20.0 | 1 | 08/29/24 | 08/29/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 1:34:40PM

PH03 - 2

E408250-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 87.1 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | | 104 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 87.1 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | | 104 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435102 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| Surrogate: n-Nonane | | 68.9 % | 50-200 | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2435096 | |
| Chloride | 1030 | 20.0 | 1 | 08/29/24 | 08/29/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 1:34:40PM

PH03 - 4

E408250-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 93.3 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | | 106 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 93.3 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | | 106 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435102 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| Surrogate: n-Nonane | | 70.2 % | 50-200 | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2435096 | |
| Chloride | 927 | 20.0 | 1 | 08/29/24 | 08/29/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 1:34:40PM

PH03 - 6

E408250-10

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 91.7 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 91.7 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435102 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| Surrogate: n-Nonane | | 77.9 % | 50-200 | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2435096 | |
| Chloride | 310 | 20.0 | 1 | 08/29/24 | 08/29/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/4/2024 1:34:40PM

PH03 - 7'

E408250-11

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435100 |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 91.5 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | | 106 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435100 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 91.5 % | 70-130 | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | | 106 % | 70-130 | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2435102 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| Surrogate: n-Nonane | | 74.7 % | 50-200 | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: JM | | Batch: 2435096 |
| Chloride | 377 | 20.0 | 1 | 08/29/24 | 08/29/24 | |



Sample Data

| | | |
|---|--|---------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/4/2024 1:34:40PM |
|---|--|---------------------------------|

SS01 - 0'

E408250-12

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | 101 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.0 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | 101 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 94.0 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435102 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| Surrogate: n-Nonane | 80.8 % | 50-200 | | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2435096 | |
| Chloride | 297 | 20.0 | 1 | 08/29/24 | 08/29/24 | |



Sample Data

| | | |
|---|--|---------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/4/2024 1:34:40PM |
|---|--|---------------------------------|

SS02 - 0'

E408250-13

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | 102 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 92.4 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | 103 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 08/30/24 | |
| Surrogate: Bromofluorobenzene | 102 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 92.4 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Surrogate: Toluene-d8 | 103 % | 70-130 | | 08/29/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435102 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 09/02/24 | |
| Surrogate: n-Nonane | 73.6 % | 50-200 | | 08/29/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2435096 | |
| Chloride | 244 | 20.0 | 1 | 08/29/24 | 08/29/24 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/4/2024 1:34:40PM |

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2435100-BLK1) Prepared: 08/29/24 Analyzed: 08/29/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| 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: Bromofluorobenzene | 0.514 | | 0.500 | | 103 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.462 | | 0.500 | | 92.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.526 | | 0.500 | | 105 | 70-130 | | | |

LCS (2435100-BS1) Prepared: 08/29/24 Analyzed: 08/29/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene | 2.32 | 0.0250 | 2.50 | | 92.6 | 70-130 | | | |
| Ethylbenzene | 2.37 | 0.0250 | 2.50 | | 94.6 | 70-130 | | | |
| Toluene | 2.48 | 0.0250 | 2.50 | | 99.0 | 70-130 | | | |
| o-Xylene | 2.51 | 0.0250 | 2.50 | | 100 | 70-130 | | | |
| p,m-Xylene | 5.03 | 0.0500 | 5.00 | | 101 | 70-130 | | | |
| Total Xylenes | 7.54 | 0.0250 | 7.50 | | 101 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.505 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.473 | | 0.500 | | 94.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.523 | | 0.500 | | 105 | 70-130 | | | |

Matrix Spike (2435100-MS1) Source: E408250-10 Prepared: 08/29/24 Analyzed: 08/30/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|--|--|--|
| Benzene | 2.23 | 0.0250 | 2.50 | ND | 89.3 | 48-131 | | | |
| Ethylbenzene | 2.37 | 0.0250 | 2.50 | ND | 94.9 | 45-135 | | | |
| Toluene | 2.48 | 0.0250 | 2.50 | ND | 99.0 | 48-130 | | | |
| o-Xylene | 2.65 | 0.0250 | 2.50 | ND | 106 | 43-135 | | | |
| p,m-Xylene | 5.27 | 0.0500 | 5.00 | ND | 105 | 43-135 | | | |
| Total Xylenes | 7.92 | 0.0250 | 7.50 | ND | 106 | 43-135 | | | |
| Surrogate: Bromofluorobenzene | 0.535 | | 0.500 | | 107 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.474 | | 0.500 | | 94.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.531 | | 0.500 | | 106 | 70-130 | | | |

Matrix Spike Dup (2435100-MSD1) Source: E408250-10 Prepared: 08/29/24 Analyzed: 08/30/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|-------|----|--|
| Benzene | 2.28 | 0.0250 | 2.50 | ND | 91.2 | 48-131 | 2.15 | 23 | |
| Ethylbenzene | 2.33 | 0.0250 | 2.50 | ND | 93.0 | 45-135 | 2.02 | 27 | |
| Toluene | 2.46 | 0.0250 | 2.50 | ND | 98.3 | 48-130 | 0.709 | 24 | |
| o-Xylene | 2.54 | 0.0250 | 2.50 | ND | 102 | 43-135 | 4.28 | 27 | |
| p,m-Xylene | 5.06 | 0.0500 | 5.00 | ND | 101 | 43-135 | 4.22 | 27 | |
| Total Xylenes | 7.59 | 0.0250 | 7.50 | ND | 101 | 43-135 | 4.24 | 27 | |
| Surrogate: Bromofluorobenzene | 0.519 | | 0.500 | | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.471 | | 0.500 | | 94.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.521 | | 0.500 | | 104 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|-------------------------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: 9/4/2024 1:34:40PM |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | |

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 (2435100-BLK1) Prepared: 08/29/24 Analyzed: 08/29/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.514 | | 0.500 | | 103 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.462 | | 0.500 | | 92.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.526 | | 0.500 | | 105 | 70-130 | | | |

LCS (2435100-BS2) Prepared: 08/29/24 Analyzed: 08/29/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 45.7 | 20.0 | 50.0 | | 91.4 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.525 | | 0.500 | | 105 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.474 | | 0.500 | | 94.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.531 | | 0.500 | | 106 | 70-130 | | | |

Matrix Spike (2435100-MS2) Source: E408250-10 Prepared: 08/29/24 Analyzed: 08/30/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 42.8 | 20.0 | 50.0 | ND | 85.7 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.525 | | 0.500 | | 105 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.448 | | 0.500 | | 89.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.529 | | 0.500 | | 106 | 70-130 | | | |

Matrix Spike Dup (2435100-MSD2) Source: E408250-10 Prepared: 08/29/24 Analyzed: 08/30/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 40.5 | 20.0 | 50.0 | ND | 81.0 | 70-130 | 5.57 | 20 | |
| Surrogate: Bromofluorobenzene | 0.529 | | 0.500 | | 106 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.470 | | 0.500 | | 93.9 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.532 | | 0.500 | | 106 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/4/2024 1:34:40PM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2435102-BLK1) Prepared: 08/29/24 Analyzed: 09/02/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 40.6 | | 50.0 | | 81.3 | 50-200 | | | |

LCS (2435102-BS1) Prepared: 08/29/24 Analyzed: 09/02/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 190 | 25.0 | 250 | | 75.9 | 38-132 | | | |
| Surrogate: n-Nonane | 45.0 | | 50.0 | | 89.9 | 50-200 | | | |

Matrix Spike (2435102-MS1) Source: E408250-05 Prepared: 08/29/24 Analyzed: 09/02/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 190 | 25.0 | 250 | ND | 75.9 | 38-132 | | | |
| Surrogate: n-Nonane | 43.8 | | 50.0 | | 87.5 | 50-200 | | | |

Matrix Spike Dup (2435102-MSD1) Source: E408250-05 Prepared: 08/29/24 Analyzed: 09/02/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 185 | 25.0 | 250 | ND | 73.9 | 38-132 | 2.70 | 20 | |
| Surrogate: n-Nonane | 42.5 | | 50.0 | | 84.9 | 50-200 | | | |



QC Summary Data

| | | |
|---|--|-------------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/4/2024 1:34:40PM |
|---|--|-------------------------------------|

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|---------------------------------|-----|------|-----|-----|---------------------------------------|--------|---------------------------------------|----|--|
| Blank (2435096-BLK1) | | | | | Prepared: 08/29/24 Analyzed: 08/29/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2435096-BS1) | | | | | Prepared: 08/29/24 Analyzed: 08/29/24 | | | | |
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | | | |
| Matrix Spike (2435096-MS1) | | | | | Source: E408250-01 | | Prepared: 08/29/24 Analyzed: 08/29/24 | | |
| Chloride | 936 | 20.0 | 250 | 678 | 103 | 80-120 | | | |
| Matrix Spike Dup (2435096-MSD1) | | | | | Source: E408250-01 | | Prepared: 08/29/24 Analyzed: 08/29/24 | | |
| Chloride | 938 | 20.0 | 250 | 678 | 104 | 80-120 | 0.230 | 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: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/04/24 13:34 |

- 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: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | E 408250 | 23003-002 | | | | 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 | | | |
| 1013 | 8/27/24 | Soil | 1 | PH01 - 13' | | 1 | | | | | | X | | | | | | |
| 1443 | 8/27/24 | Soil | 1 | PH02 - 0' | | 2 | | | | | | X | | | | | | |
| 1317 | 8/27/24 | Soil | 1 | PH02 - 2' | | 3 | | | | | | X | | | | | | |
| 1350 | 8/27/24 | Soil | 1 | PH02 - 4 | | 4 | | | | | | X | | | | | | |
| 1356 | 8/27/24 | Soil | 1 | PH02 - 6 | | 5 | | | | | | X | | | | | | |
| 1421 | 8/27/24 | Soil | 1 | PH02 - 7 | | 6 | | | | | | X | | | | | | Do not run for BGDOC unless PH02-6' is >100 TPH or 600 CI- |
| 1443 | 8/27/24 | Soil | 1 | PH03 - 0 | | 7 | | | | | | X | | | | | | |
| 1449 | 8/27/24 | Soil | 1 | PH03 - 2 | | 8 | | | | | | X | | | | | | |
| 1509 | 8/27/24 | Soil | 1 | PH03 - 4 | | 9 | | | | | | X | | | | | | |
| 1522 | 8/27/24 | Soil | 1 | PH03 - 6 | | 10 | | | | | | X | | | | | | |
| Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@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: Chad Hamilton 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 / 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. | | | | | | | | | | | | | | | | | | |



Page 2 of 2

envirotech

Envirotech Analytical Laboratory

Printed: 8/29/2024 8:44:16AM

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: | 08/29/24 08:00 | Work Order ID: | E408250 |
| Phone: | (972) 371-5200 | Date Logged In: | 08/28/24 16:28 | Logged In By: | Noe Soto |
| Email: | agiovngo@ensolum.com | Due Date: | 09/05/24 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: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

Work Order: E408252

Job Number: 23003-0002

Received: 8/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/5/24

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: 9/5/24

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



Project Name: Ray State Slot 4
Workorder: E408252
Date Received: 8/29/2024 8:00:24AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/29/2024 8:00:24AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | | |
|------------------------------|------------------|------------------|----------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/05/24 11:02 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| PH01 - 15' | E408252-01A | Soil | 08/27/24 | 08/29/24 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/5/2024 11:02:25AM

PH01 - 15'

E408252-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435103 |
| Benzene | ND | 0.0250 | 1 | 08/29/24 | 09/03/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/29/24 | 09/03/24 | |
| Toluene | ND | 0.0250 | 1 | 08/29/24 | 09/03/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/29/24 | 09/03/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/29/24 | 09/03/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/29/24 | 09/03/24 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 08/29/24 | 09/03/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94.9 % | 70-130 | 08/29/24 | 09/03/24 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 08/29/24 | 09/03/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435103 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/29/24 | 09/03/24 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 08/29/24 | 09/03/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94.9 % | 70-130 | 08/29/24 | 09/03/24 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 08/29/24 | 09/03/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2435091 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/29/24 | 08/31/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/29/24 | 08/31/24 | |
| Surrogate: n-Nonane | | 84.1 % | 50-200 | 08/29/24 | 08/31/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: JM | | Batch: 2435096 |
| Chloride | 638 | 20.0 | 1 | 08/29/24 | 08/29/24 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/5/2024 11:02:25AM |

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2435103-BLK1) Prepared: 08/29/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| 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 | 0.507 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.448 | | 0.500 | | 89.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.531 | | 0.500 | | 106 | 70-130 | | | |

LCS (2435103-BS1) Prepared: 08/29/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene | 2.05 | 0.0250 | 2.50 | | 81.9 | 70-130 | | | |
| Ethylbenzene | 2.18 | 0.0250 | 2.50 | | 87.0 | 70-130 | | | |
| Toluene | 2.11 | 0.0250 | 2.50 | | 84.4 | 70-130 | | | |
| o-Xylene | 2.09 | 0.0250 | 2.50 | | 83.7 | 70-130 | | | |
| p,m-Xylene | 4.20 | 0.0500 | 5.00 | | 84.1 | 70-130 | | | |
| Total Xylenes | 6.30 | 0.0250 | 7.50 | | 83.9 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.506 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.467 | | 0.500 | | 93.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.521 | | 0.500 | | 104 | 70-130 | | | |

Matrix Spike (2435103-MS1) Source: E408251-06 Prepared: 08/29/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|--|--|--|
| Benzene | 2.41 | 0.0250 | 2.50 | ND | 96.5 | 48-131 | | | |
| Ethylbenzene | 2.31 | 0.0250 | 2.50 | ND | 92.6 | 45-135 | | | |
| Toluene | 2.33 | 0.0250 | 2.50 | ND | 93.2 | 48-130 | | | |
| o-Xylene | 2.22 | 0.0250 | 2.50 | ND | 88.7 | 43-135 | | | |
| p,m-Xylene | 4.47 | 0.0500 | 5.00 | ND | 89.3 | 43-135 | | | |
| Total Xylenes | 6.68 | 0.0250 | 7.50 | ND | 89.1 | 43-135 | | | |
| Surrogate: Bromofluorobenzene | 0.500 | | 0.500 | | 99.9 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.484 | | 0.500 | | 96.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.524 | | 0.500 | | 105 | 70-130 | | | |

Matrix Spike Dup (2435103-MSD1) Source: E408251-06 Prepared: 08/29/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|------|----|--|
| Benzene | 2.46 | 0.0250 | 2.50 | ND | 98.3 | 48-131 | 1.85 | 23 | |
| Ethylbenzene | 2.36 | 0.0250 | 2.50 | ND | 94.5 | 45-135 | 2.03 | 27 | |
| Toluene | 2.39 | 0.0250 | 2.50 | ND | 95.4 | 48-130 | 2.37 | 24 | |
| o-Xylene | 2.26 | 0.0250 | 2.50 | ND | 90.3 | 43-135 | 1.74 | 27 | |
| p,m-Xylene | 4.56 | 0.0500 | 5.00 | ND | 91.2 | 43-135 | 2.06 | 27 | |
| Total Xylenes | 6.82 | 0.0250 | 7.50 | ND | 90.9 | 43-135 | 1.96 | 27 | |
| Surrogate: Bromofluorobenzene | 0.504 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.481 | | 0.500 | | 96.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.523 | | 0.500 | | 105 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: 9/5/2024 11:02:25AM |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | |

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 (2435103-BLK1) Prepared: 08/29/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.507 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.448 | | 0.500 | | 89.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.531 | | 0.500 | | 106 | 70-130 | | | |

LCS (2435103-BS2) Prepared: 08/29/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 45.6 | 20.0 | 50.0 | | 91.3 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.510 | | 0.500 | | 102 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.468 | | 0.500 | | 93.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.530 | | 0.500 | | 106 | 70-130 | | | |

Matrix Spike (2435103-MS2) Source: E408251-06 Prepared: 08/29/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 46.2 | 20.0 | 50.0 | ND | 92.5 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.523 | | 0.500 | | 105 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.476 | | 0.500 | | 95.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.546 | | 0.500 | | 109 | 70-130 | | | |

Matrix Spike Dup (2435103-MSD2) Source: E408251-06 Prepared: 08/29/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|--------|----|--|
| Gasoline Range Organics (C6-C10) | 46.3 | 20.0 | 50.0 | ND | 92.5 | 70-130 | 0.0703 | 20 | |
| Surrogate: Bromofluorobenzene | 0.502 | | 0.500 | | 100 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.470 | | 0.500 | | 94.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.535 | | 0.500 | | 107 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/5/2024 11:02:25AM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2435091-BLK1) | | | | | Prepared: 08/29/24 Analyzed: 08/31/24 | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 42.3 | | 50.0 | | 84.7 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2435091-BS1) | | | | | Prepared: 08/29/24 Analyzed: 08/31/24 | | | | |
| Diesel Range Organics (C10-C28) | 210 | 25.0 | 250 | | 83.9 | 38-132 | | | |
| Surrogate: n-Nonane | 45.6 | | 50.0 | | 91.2 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2435091-MS1) | | | | | Source: E408249-02 | | Prepared: 08/29/24 Analyzed: 08/31/24 | | |
| Diesel Range Organics (C10-C28) | 218 | 25.0 | 250 | ND | 87.3 | 38-132 | | | |
| Surrogate: n-Nonane | 45.5 | | 50.0 | | 90.9 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2435091-MSD1) | | | | | Source: E408249-02 | | Prepared: 08/29/24 Analyzed: 08/31/24 | | |
| Diesel Range Organics (C10-C28) | 232 | 25.0 | 250 | ND | 92.7 | 38-132 | 6.04 | 20 | |
| Surrogate: n-Nonane | 45.0 | | 50.0 | | 90.0 | 50-200 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/5/2024 11:02:25AM |

Anions by EPA 300.0/9056A

Analyst: JM

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

| | | | | | | | | | |
|---------------------------------|-----|------|-----|-----|---------------------------------------|--------|---------------------------------------|----|--|
| Blank (2435096-BLK1) | | | | | Prepared: 08/29/24 Analyzed: 08/29/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2435096-BS1) | | | | | Prepared: 08/29/24 Analyzed: 08/29/24 | | | | |
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | | | |
| Matrix Spike (2435096-MS1) | | | | | Source: E408250-01 | | Prepared: 08/29/24 Analyzed: 08/29/24 | | |
| Chloride | 936 | 20.0 | 250 | 678 | 103 | 80-120 | | | |
| Matrix Spike Dup (2435096-MSD1) | | | | | Source: E408250-01 | | Prepared: 08/29/24 Analyzed: 08/29/24 | | |
| Chloride | 938 | 20.0 | 250 | 678 | 104 | 80-120 | 0.230 | 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: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/05/24 11:02 |

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: 8/29/2024 8:44:25AM

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: | 08/29/24 08:00 | Work Order ID: | E408252 |
| Phone: | (972) 371-5200 | Date Logged In: | 08/28/24 16:36 | Logged In By: | Noe Soto |
| Email: | agiovngo@ensolum.com | Due Date: | 09/05/24 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: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

Work Order: E408268

Job Number: 23003-0002

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/6/24

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: 9/6/24

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



Project Name: Ray State Slot 4
Workorder: E408268
Date Received: 8/30/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 5:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | | |
|------------------------------|------------------|------------------|----------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/06/24 08:04 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| PH05-10' | E408268-01A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/6/2024 8:04:16AM

PH05-10'

E408268-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435115 |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 09/04/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 09/04/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 09/04/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 09/04/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 09/04/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 96.2 % | 70-130 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 91.2 % | 70-130 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: Toluene-d8</i> | | 102 % | 70-130 | 08/30/24 | 09/04/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435115 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 96.2 % | 70-130 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 91.2 % | 70-130 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: Toluene-d8</i> | | 102 % | 70-130 | 08/30/24 | 09/04/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2435117 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/02/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/02/24 | |
| <i>Surrogate: n-Nonane</i> | | 87.4 % | 50-200 | 08/30/24 | 09/02/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2435123 |
| Chloride | 556 | 20.0 | 1 | 08/30/24 | 08/31/24 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/6/2024 8:04:16AM |

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2435115-BLK1) Prepared: 08/30/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| 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 | 0.486 | | 0.500 | | 97.1 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.467 | | 0.500 | | 93.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.518 | | 0.500 | | 104 | 70-130 | | | |

LCS (2435115-BS1) Prepared: 08/30/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene | 2.33 | 0.0250 | 2.50 | | 93.3 | 70-130 | | | |
| Ethylbenzene | 2.37 | 0.0250 | 2.50 | | 94.8 | 70-130 | | | |
| Toluene | 2.52 | 0.0250 | 2.50 | | 101 | 70-130 | | | |
| o-Xylene | 2.51 | 0.0250 | 2.50 | | 100 | 70-130 | | | |
| p,m-Xylene | 5.06 | 0.0500 | 5.00 | | 101 | 70-130 | | | |
| Total Xylenes | 7.57 | 0.0250 | 7.50 | | 101 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.486 | | 0.500 | | 97.1 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.473 | | 0.500 | | 94.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.518 | | 0.500 | | 104 | 70-130 | | | |

Matrix Spike (2435115-MS1) Source: E408264-01 Prepared: 08/30/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|--|--|--|
| Benzene | 2.36 | 0.0250 | 2.50 | ND | 94.5 | 48-131 | | | |
| Ethylbenzene | 2.38 | 0.0250 | 2.50 | ND | 95.1 | 45-135 | | | |
| Toluene | 2.52 | 0.0250 | 2.50 | ND | 101 | 48-130 | | | |
| o-Xylene | 2.54 | 0.0250 | 2.50 | ND | 102 | 43-135 | | | |
| p,m-Xylene | 5.10 | 0.0500 | 5.00 | ND | 102 | 43-135 | | | |
| Total Xylenes | 7.64 | 0.0250 | 7.50 | ND | 102 | 43-135 | | | |
| Surrogate: Bromofluorobenzene | 0.493 | | 0.500 | | 98.5 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.484 | | 0.500 | | 96.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.511 | | 0.500 | | 102 | 70-130 | | | |

Matrix Spike Dup (2435115-MSD1) Source: E408264-01 Prepared: 08/30/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|------|----|--|
| Benzene | 2.25 | 0.0250 | 2.50 | ND | 89.9 | 48-131 | 5.01 | 23 | |
| Ethylbenzene | 2.27 | 0.0250 | 2.50 | ND | 90.8 | 45-135 | 4.54 | 27 | |
| Toluene | 2.41 | 0.0250 | 2.50 | ND | 96.5 | 48-130 | 4.28 | 24 | |
| o-Xylene | 2.50 | 0.0250 | 2.50 | ND | 100 | 43-135 | 1.45 | 27 | |
| p,m-Xylene | 4.98 | 0.0500 | 5.00 | ND | 99.5 | 43-135 | 2.42 | 27 | |
| Total Xylenes | 7.48 | 0.0250 | 7.50 | ND | 99.7 | 43-135 | 2.10 | 27 | |
| Surrogate: Bromofluorobenzene | 0.496 | | 0.500 | | 99.2 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.477 | | 0.500 | | 95.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.515 | | 0.500 | | 103 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|-------------------------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: 9/6/2024 8:04:16AM |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | |

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 (2435115-BLK1) Prepared: 08/30/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.486 | | 0.500 | | 97.1 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.467 | | 0.500 | | 93.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.518 | | 0.500 | | 104 | 70-130 | | | |

LCS (2435115-BS2) Prepared: 08/30/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 39.7 | 20.0 | 50.0 | | 79.4 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.490 | | 0.500 | | 97.9 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.463 | | 0.500 | | 92.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.525 | | 0.500 | | 105 | 70-130 | | | |

Matrix Spike (2435115-MS2) Source: E408264-01 Prepared: 08/30/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 39.2 | 20.0 | 50.0 | ND | 78.4 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.488 | | 0.500 | | 97.6 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.464 | | 0.500 | | 92.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.524 | | 0.500 | | 105 | 70-130 | | | |

Matrix Spike Dup (2435115-MSD2) Source: E408264-01 Prepared: 08/30/24 Analyzed: 09/03/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 38.5 | 20.0 | 50.0 | ND | 77.1 | 70-130 | 1.74 | 20 | |
| Surrogate: Bromofluorobenzene | 0.490 | | 0.500 | | 98.0 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.467 | | 0.500 | | 93.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.525 | | 0.500 | | 105 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/6/2024 8:04:16AM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2435117-BLK1) Prepared: 08/30/24 Analyzed: 09/01/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 48.2 | | 50.0 | | 96.5 | 50-200 | | | |

LCS (2435117-BS1) Prepared: 08/30/24 Analyzed: 09/01/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 230 | 25.0 | 250 | | 92.0 | 38-132 | | | |
| Surrogate: n-Nonane | 48.2 | | 50.0 | | 96.4 | 50-200 | | | |

Matrix Spike (2435117-MS1) Source: E408260-02 Prepared: 08/30/24 Analyzed: 09/01/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 233 | 25.0 | 250 | ND | 93.4 | 38-132 | | | |
| Surrogate: n-Nonane | 46.8 | | 50.0 | | 93.7 | 50-200 | | | |

Matrix Spike Dup (2435117-MSD1) Source: E408260-02 Prepared: 08/30/24 Analyzed: 09/01/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 236 | 25.0 | 250 | ND | 94.4 | 38-132 | 1.11 | 20 | |
| Surrogate: n-Nonane | 48.7 | | 50.0 | | 97.4 | 50-200 | | | |



QC Summary Data

| | | |
|---|--|-------------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/6/2024 8:04:16AM |
|---|--|-------------------------------------|

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 (2435123-BLK1) | | | | | Prepared: 08/30/24 Analyzed: 08/31/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2435123-BS1) | | | | | Prepared: 08/30/24 Analyzed: 08/31/24 | | | | |
| Chloride | 252 | 20.0 | 250 | | 101 | 90-110 | | | |
| Matrix Spike (2435123-MS1) | | | | | Source: E408260-03 | | Prepared: 08/30/24 Analyzed: 08/31/24 | | |
| Chloride | 253 | 20.0 | 250 | ND | 101 | 80-120 | | | |
| Matrix Spike Dup (2435123-MSD1) | | | | | Source: E408260-03 | | Prepared: 08/30/24 Analyzed: 08/31/24 | | |
| Chloride | 253 | 20.0 | 250 | ND | 101 | 80-120 | 0.0119 | 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: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/06/24 08:04 |

- 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

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: 8/30/2024 10:55:25AM

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: | 08/30/24 05:00 | Work Order ID: | E408268 |
| Phone: | (972) 371-5200 | Date Logged In: | 08/30/24 05:00 | Logged In By: | Keyliegh Hall |
| Email: | agiovngo@ensolum.com | Due Date: | 09/06/24 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:

Comments/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: N/A

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: Ray State Slot 4

Work Order: E408271

Job Number: 23003-0002

Received: 8/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/5/24

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: 9/5/24

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



Project Name: Ray State Slot 4
Workorder: E408271
Date Received: 8/30/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2024 5:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | |
|---|--|-----------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 09/05/24 12:43 |
|---|--|-----------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| PH04-0' | E408271-01A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH04-1' | E408271-02A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH05-0' | E408271-03A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH05-2' | E408271-04A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH05-4' | E408271-05A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH05-6' | E408271-06A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH05-8' | E408271-07A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH06-0' | E408271-08A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH06-2' | E408271-09A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH06-4' | E408271-10A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH06-6' | E408271-11A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH06-8' | E408271-12A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH06-10' | E408271-13A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH06-11' | E408271-14A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH07-0' | E408271-15A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH07-2' | E408271-16A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH07-4' | E408271-17A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |
| PH07-6' | E408271-18A | Soil | 08/28/24 | 08/30/24 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/5/2024 12:43:34PM

PH04-0'

E408271-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | 99.4 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | 94.9 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | 85.8 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 870 | 20.0 | 1 | 08/30/24 | 08/30/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/5/2024 12:43:34PM

PH04-1'

E408271-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435125 |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 98.9 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2435125 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 94.8 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2435135 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 84.7 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2435132 |
| Chloride | 472 | 20.0 | 1 | 08/30/24 | 08/30/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH05-0'

E408271-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 99.3 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 96.2 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 84.4 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 2540 | 40.0 | 2 | 08/30/24 | 08/30/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH05-2'

E408271-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 99.0 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 93.8 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| Surrogate: n-Nonane | 90.3 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 1330 | 20.0 | 1 | 08/30/24 | 08/30/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH05-4'
E408271-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 98.6 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 95.8 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 85.4 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 2280 | 20.0 | 1 | 08/30/24 | 08/30/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH05-6'

E408271-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 98.8 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 94.3 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 84.9 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 1840 | 20.0 | 1 | 08/30/24 | 08/30/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH05-8'

E408271-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/30/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/30/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/30/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/30/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/30/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/30/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 98.2 % | 70-130 | | 08/30/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/30/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 95.2 % | 70-130 | | 08/30/24 | 08/30/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| Surrogate: n-Nonane | 89.1 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 319 | 20.0 | 1 | 08/30/24 | 08/30/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH06-0'

E408271-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 100 % | 70-130 | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 94.1 % | 70-130 | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | 277 | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | 380 | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 86.2 % | 50-200 | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 1460 | 20.0 | 1 | 08/30/24 | 08/30/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH06-2'

E408271-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 100 % | 70-130 | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 93.2 % | 70-130 | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 86.7 % | 50-200 | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 2390 | 40.0 | 2 | 08/30/24 | 08/30/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH06-4'
E408271-10

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 99.3 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 94.4 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| Surrogate: n-Nonane | 87.2 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 2790 | 100 | 5 | 08/30/24 | 08/30/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/5/2024 12:43:34PM

PH06-6'

E408271-11

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 99.1 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 94.2 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 85.5 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 2380 | 40.0 | 2 | 08/30/24 | 08/30/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH06-8'
E408271-12

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 100 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 93.9 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| Surrogate: n-Nonane | 84.7 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 1540 | 20.0 | 1 | 08/30/24 | 08/30/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH06-10'

E408271-13

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 101 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 94.0 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| Surrogate: n-Nonane | 83.0 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 236 | 20.0 | 1 | 08/30/24 | 08/31/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH06-11'

E408271-14

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 98.6 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 93.7 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 91.7 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 250 | 20.0 | 1 | 08/30/24 | 08/31/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH07-0'

E408271-15

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 99.5 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 93.9 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | 545 | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | 1840 | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| Surrogate: n-Nonane | 90.1 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 3990 | 40.0 | 2 | 08/30/24 | 08/31/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH07-2'

E408271-16

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 99.9 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 93.9 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| Surrogate: n-Nonane | 85.0 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 3050 | 40.0 | 2 | 08/30/24 | 08/31/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH07-4'

E408271-17

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 101 % | 70-130 | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 95.2 % | 70-130 | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 87.3 % | 50-200 | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 821 | 40.0 | 2 | 08/30/24 | 08/31/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|----------------------------------|

PH07-6'

E408271-18

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Benzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Toluene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| o-Xylene | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 08/30/24 | 08/31/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 99.4 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2435125 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 08/30/24 | 08/31/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 94.5 % | 70-130 | | 08/30/24 | 08/31/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2435135 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 08/30/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 08/30/24 | 09/04/24 | |
| Surrogate: n-Nonane | 90.7 % | 50-200 | | 08/30/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2435132 | |
| Chloride | 2870 | 40.0 | 2 | 08/30/24 | 08/31/24 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/5/2024 12:43:34PM |

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 (2435125-BLK1)Prepared: 08/30/24 Analyzed: 08/30/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| 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 | 7.92 | | 8.00 | | 99.0 | 70-130 | | | |

LCS (2435125-BS1)Prepared: 08/30/24 Analyzed: 08/30/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 5.23 | 0.0250 | 5.00 | | 105 | 70-130 | | | |
| Ethylbenzene | 5.06 | 0.0250 | 5.00 | | 101 | 70-130 | | | |
| Toluene | 5.16 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| o-Xylene | 5.04 | 0.0250 | 5.00 | | 101 | 70-130 | | | |
| p,m-Xylene | 10.3 | 0.0500 | 10.0 | | 103 | 70-130 | | | |
| Total Xylenes | 15.3 | 0.0250 | 15.0 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.92 | | 8.00 | | 98.9 | 70-130 | | | |

Matrix Spike (2435125-MS1)Source: E408271-07Prepared: 08/30/24 Analyzed: 08/30/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene | 5.53 | 0.0250 | 5.00 | ND | 111 | 54-133 | | | |
| Ethylbenzene | 5.30 | 0.0250 | 5.00 | ND | 106 | 61-133 | | | |
| Toluene | 5.43 | 0.0250 | 5.00 | ND | 109 | 61-130 | | | |
| o-Xylene | 5.30 | 0.0250 | 5.00 | ND | 106 | 63-131 | | | |
| p,m-Xylene | 10.8 | 0.0500 | 10.0 | ND | 108 | 63-131 | | | |
| Total Xylenes | 16.1 | 0.0250 | 15.0 | ND | 107 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.84 | | 8.00 | | 98.0 | 70-130 | | | |

Matrix Spike Dup (2435125-MSD1)Source: E408271-07Prepared: 08/30/24 Analyzed: 08/30/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|------|----|--|
| Benzene | 5.33 | 0.0250 | 5.00 | ND | 107 | 54-133 | 3.67 | 20 | |
| Ethylbenzene | 5.13 | 0.0250 | 5.00 | ND | 103 | 61-133 | 3.19 | 20 | |
| Toluene | 5.25 | 0.0250 | 5.00 | ND | 105 | 61-130 | 3.52 | 20 | |
| o-Xylene | 5.13 | 0.0250 | 5.00 | ND | 103 | 63-131 | 3.33 | 20 | |
| p,m-Xylene | 10.4 | 0.0500 | 10.0 | ND | 104 | 63-131 | 3.14 | 20 | |
| Total Xylenes | 15.6 | 0.0250 | 15.0 | ND | 104 | 63-131 | 3.20 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.81 | | 8.00 | | 97.7 | 70-130 | | | |

QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/5/2024 12:43:34PM |

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 (2435125-BLK1) Prepared: 08/30/24 Analyzed: 08/30/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.51 | | 8.00 | | 93.9 | 70-130 | | | |

LCS (2435125-BS2) Prepared: 08/30/24 Analyzed: 08/30/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 42.5 | 20.0 | 50.0 | | 85.1 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.66 | | 8.00 | | 95.7 | 70-130 | | | |

Matrix Spike (2435125-MS2) Source: E408271-07 Prepared: 08/30/24 Analyzed: 08/31/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 41.1 | 20.0 | 50.0 | ND | 82.2 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.68 | | 8.00 | | 96.0 | 70-130 | | | |

Matrix Spike Dup (2435125-MSD2) Source: E408271-07 Prepared: 08/30/24 Analyzed: 08/31/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 38.0 | 20.0 | 50.0 | ND | 76.0 | 70-130 | 7.81 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.68 | | 8.00 | | 96.0 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/5/2024 12:43:34PM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2435135-BLK1) Prepared: 08/30/24 Analyzed: 09/04/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 35.4 | | 50.0 | | 70.7 | 50-200 | | | |

LCS (2435135-BS1) Prepared: 08/30/24 Analyzed: 09/04/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 173 | 25.0 | 250 | | 69.3 | 38-132 | | | |
| Surrogate: n-Nonane | 41.2 | | 50.0 | | 82.4 | 50-200 | | | |

Matrix Spike (2435135-MS1) Source: E408271-06 Prepared: 08/30/24 Analyzed: 09/04/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 201 | 25.0 | 250 | ND | 80.3 | 38-132 | | | |
| Surrogate: n-Nonane | 43.1 | | 50.0 | | 86.2 | 50-200 | | | |

Matrix Spike Dup (2435135-MSD1) Source: E408271-06 Prepared: 08/30/24 Analyzed: 09/04/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 215 | 25.0 | 250 | ND | 86.2 | 38-132 | 7.04 | 20 | |
| Surrogate: n-Nonane | 46.0 | | 50.0 | | 92.1 | 50-200 | | | |



QC Summary Data

| | | |
|---|--|--------------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/5/2024 12:43:34PM |
|---|--|--------------------------------------|

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 (2435132-BLK1) | | | | | Prepared: 08/30/24 Analyzed: 08/30/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2435132-BS1) | | | | | Prepared: 08/30/24 Analyzed: 08/30/24 | | | | |
| Chloride | 258 | 20.0 | 250 | | 103 | 90-110 | | | |
| Matrix Spike (2435132-MS1) | | | | | Source: E408271-07 | | Prepared: 08/30/24 Analyzed: 08/30/24 | | |
| Chloride | 584 | 20.0 | 250 | 319 | 106 | 80-120 | | | |
| Matrix Spike Dup (2435132-MSD1) | | | | | Source: E408271-07 | | Prepared: 08/30/24 Analyzed: 08/30/24 | | |
| Chloride | 568 | 20.0 | 250 | 319 | 99.6 | 80-120 | 2.64 | 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: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/05/24 12:43 |

- 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 2

| Client Information | | | | Invoice Information | | Lab Use Only | | TAT | | | | State | | | | | |
|---|--------------|--------|-------------------|--------------------------------------|--------------|--------------|-----------------|---|--------------|--|----------------|-------------|----------------|---------------|------------|-----|------|
| Client: Matador Production Company | | | | Company: Ensolum LLC | | Lab WO# | | 1D 2D 3D Std | | | | NM CO UT TX | | | | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | E408271 | | 23003-0002 | | | | 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 | | |
| 0432 | 8/28/24 | Soil | 1 | PH04-0' | | 1 | | | | | | X | | | | | |
| 0435 | 8/28/24 | Soil | 1 | PH04-1' | | 2 | | | | | | X | | | | | |
| 1024 | 8/28/24 | Soil | 1 | PH05-0' | | 3 | | | | | | X | | | | | |
| 1035 | 8/28/24 | Soil | 1 | PH05-2' | | 4 | | | | | | X | | | | | |
| 1058 | 8/28/24 | Soil | 1 | PH05-4' | | 5 | | | | | | X | | | | | |
| 1103 | 8/28/24 | Soil | 1 | PH05-6' | | 6 | | | | | | X | | | | | |
| 1126 | 8/28/24 | Soil | 1 | PH05-8' | | 7 | | | | | | X | | | | | |
| 1312 | 8/28/24 | Soil | 1 | PH06-0' | | 8 | | | | | | X | | | | | |
| 1316 | 8/28/24 | Soil | 1 | PH06-2' | | 9 | | | | | | X | | | | | |
| 1334 | 8/28/24 | Soil | 1 | PH06-4' | | 10 | | | | | | X | | | | | |
| Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@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: Chad Hamilton 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 / 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. | | | | | | | | | | | | | | | | | |



Chain of Custody

Page 2 of 2

| 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: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | E408271 | 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 | | | |
| 1338 | 8/28/24 | Soil | 1 | PH06-6' | | 11 | | | | | | X | | | | | | |
| 1358 | 8/28/24 | Soil | 1 | PH06-8' | | 12 | | | | | | X | | | | | | |
| 1415 | 8/28/24 | Soil | 1 | PH06-10' | | 13 | | | | | | X | | | | | | |
| 1417 | 8/28/24 | Soil | 1 | PH06-11' | | 14 | | | | | | X | | | | | | |
| 1447 | 8/28/24 | Soil | 1 | PH07-0' | | 15 | | | | | | X | | | | | | |
| 1451 | 8/28/24 | Soil | 1 | PH07-2' | | 16 | | | | | | X | | | | | | |
| 1505 | 8/28/24 | Soil | 1 | PH07-4' | | 17 | | | | | | X | | | | | | |
| 1508 | 8/28/24 | Soil | 1 | PH07-6' | | 18 | | | | | | X | | | | | | |
| | | | | BD | | | | | | | | | | | | | | |
| | | | | BD | | | | | | | | | | | | | | |
| Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@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: Chad Hamilton <i>Brandon Deal</i> | | | | | | | | | | | | | | | | | | |
| 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 <u>4</u> | | | | | | | | | | |
| <i>Michelle Gonzales</i> | | 8/29/24 | 0930 | <i>Michelle Gonzales</i> | | 8-29-24 | 0930 | | | | | | | | | | | |
| <i>J.H.</i> | | 8-29-24 | 1640 | <i>J.H.</i> | | 8-29-24 | 1640 | | | | | | | | | | | |
| <i>J.H.</i> | | 8-29-24 | 2300 | <i>Kyle R Heel</i> | | 8-30-24 | 0500 | | | | | | | | | | | |
| 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: 8/30/2024 11:17:46AM

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: | 08/30/24 05:00 | Work Order ID: | E408271 |
| Phone: | (972) 371-5200 | Date Logged In: | 08/30/24 07:03 | Logged In By: | Keyliegh Hall |
| Email: | agiovngo@ensolum.com | Due Date: | 09/06/24 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: N/A

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: Ray State Slot 4

Work Order: E408283

Job Number: 23003-0002

Received: 9/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/9/24

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: 9/9/24

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



Project Name: Ray State Slot 4
Workorder: E408283
Date Received: 9/3/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/3/2024 5:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
09/09/24 11:59

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| PH07-8' | E408283-01A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |
| PH07-10' | E408283-02A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |
| PH07-12' | E408283-03A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |
| PH07-14' | E408283-04A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |
| PH07-16' | E408283-05A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |
| PH08-0' | E408283-06A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |
| PH08-2' | E408283-07A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |
| PH08-4' | E408283-08A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |
| PH08-6' | E408283-09A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |
| PH08-8' | E408283-10A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |
| PH08-10' | E408283-11A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |
| PH08-12' | E408283-12A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |
| SS03-0' | E408283-13A | Soil | 08/29/24 | 09/03/24 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/9/2024 11:59:18AM

PH07-8'

E408283-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/05/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | 90.0 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | 90.1 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2436008 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/03/24 | 09/03/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/03/24 | 09/03/24 | |
| <i>Surrogate: n-Nonane</i> | 97.6 % | 50-200 | | 09/03/24 | 09/03/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2436018 | |
| Chloride | 1230 | 20.0 | 1 | 09/03/24 | 09/04/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/9/2024 11:59:18AM

PH07-10'

E408283-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/05/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 88.1 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 90.0 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2436008 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/03/24 | 09/03/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/03/24 | 09/03/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 103 % | 50-200 | | 09/03/24 | 09/03/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2436018 | |
| Chloride | 1160 | 20.0 | 1 | 09/03/24 | 09/04/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/9/2024 11:59:18AM

PH07-12'

E408283-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: CG | | Batch: 2436015 |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/05/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 88.9 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: CG | | Batch: 2436015 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.2 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2436008 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/03/24 | 09/03/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/03/24 | 09/03/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 95.3 % | 50-200 | | 09/03/24 | 09/03/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2436018 |
| Chloride | 768 | 20.0 | 1 | 09/03/24 | 09/04/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/9/2024 11:59:18AM |
|---|--|----------------------------------|

PH07-14'

E408283-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/05/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 88.3 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.8 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2436008 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/03/24 | 09/03/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/03/24 | 09/03/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 96.0 % | 50-200 | | 09/03/24 | 09/03/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2436018 | |
| Chloride | 653 | 20.0 | 1 | 09/03/24 | 09/04/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/9/2024 11:59:18AM |
|---|--|----------------------------------|

PH07-16'

E408283-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/05/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 89.8 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.0 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2436008 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/03/24 | 09/03/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/03/24 | 09/03/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 98.7 % | 50-200 | | 09/03/24 | 09/03/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2436018 | |
| Chloride | 672 | 20.0 | 1 | 09/03/24 | 09/04/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/9/2024 11:59:18AM |
|---|--|----------------------------------|

PH08-0'

E408283-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/05/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 88.2 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/05/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 89.8 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2436008 | |
| Diesel Range Organics (C10-C28) | 516 | 25.0 | 1 | 09/03/24 | 09/03/24 | |
| Oil Range Organics (C28-C36) | 152 | 50.0 | 1 | 09/03/24 | 09/03/24 | |
| Surrogate: n-Nonane | 99.7 % | 50-200 | | 09/03/24 | 09/03/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2436018 | |
| Chloride | 2760 | 40.0 | 2 | 09/03/24 | 09/04/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/9/2024 11:59:18AM |
|---|--|----------------------------------|

PH08-2'

E408283-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/05/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 91.2 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.0 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2436008 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/03/24 | 09/03/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/03/24 | 09/03/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 101 % | 50-200 | | 09/03/24 | 09/03/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2436018 | |
| Chloride | 1680 | 20.0 | 1 | 09/03/24 | 09/04/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/9/2024 11:59:18AM |
|---|--|----------------------------------|

PH08-4'
E408283-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/05/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 90.6 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/05/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 91.1 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2436008 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/03/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/03/24 | 09/04/24 | |
| Surrogate: n-Nonane | 95.7 % | 50-200 | | 09/03/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2436018 | |
| Chloride | 1750 | 20.0 | 1 | 09/03/24 | 09/04/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/9/2024 11:59:18AM

PH08-6'

E408283-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: CG | | Batch: 2436015 |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/05/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 90.1 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: CG | | Batch: 2436015 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 90.6 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: NV | | Batch: 2436008 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/03/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/03/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 102 % | 50-200 | | 09/03/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2436018 |
| Chloride | 1680 | 20.0 | 1 | 09/03/24 | 09/04/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/9/2024 11:59:18AM |
|---|--|----------------------------------|

PH08-8'

E408283-10

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/04/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/04/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/04/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/04/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/04/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/04/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 86.4 % | 70-130 | | 09/03/24 | 09/04/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/04/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 90.8 % | 70-130 | | 09/03/24 | 09/04/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2436008 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/03/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/03/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 103 % | 50-200 | | 09/03/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2436018 | |
| Chloride | 613 | 20.0 | 1 | 09/03/24 | 09/04/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/9/2024 11:59:18AM

PH08-10'

E408283-11

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/05/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 90.0 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 89.9 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2436008 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/03/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/03/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 95.5 % | 50-200 | | 09/03/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2436018 | |
| Chloride | 812 | 20.0 | 1 | 09/03/24 | 09/04/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/9/2024 11:59:18AM |
|---|--|----------------------------------|

PH08-12'

E408283-12

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/05/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 88.1 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 90.1 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2436008 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/03/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/03/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 97.0 % | 50-200 | | 09/03/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2436018 | |
| Chloride | 670 | 20.0 | 1 | 09/03/24 | 09/04/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/9/2024 11:59:18AM

SS03-0'

E408283-13

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Benzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| Toluene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/03/24 | 09/05/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 90.1 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436015 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/03/24 | 09/05/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 90.1 % | 70-130 | | 09/03/24 | 09/05/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2436008 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/03/24 | 09/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/03/24 | 09/04/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 101 % | 50-200 | | 09/03/24 | 09/04/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2436018 | |
| Chloride | 45.5 | 20.0 | 1 | 09/03/24 | 09/04/24 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/9/2024 11:59:18AM |

Volatile Organics by EPA 8021B

Analyst: CG

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

Blank (2436015-BLK1) Prepared: 09/03/24 Analyzed: 09/04/24

| | | | | | | | | | |
|---------------|----|--------|--|--|--|--|--|--|--|
| 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 6.92 8.00 86.6 70-130

LCS (2436015-BS1) Prepared: 09/03/24 Analyzed: 09/04/24

| | | | | | | | | | |
|---------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 3.86 | 0.0250 | 5.00 | | 77.2 | 70-130 | | | |
| Ethylbenzene | 3.63 | 0.0250 | 5.00 | | 72.7 | 70-130 | | | |
| Toluene | 3.76 | 0.0250 | 5.00 | | 75.2 | 70-130 | | | |
| o-Xylene | 3.60 | 0.0250 | 5.00 | | 72.1 | 70-130 | | | |
| p,m-Xylene | 7.38 | 0.0500 | 10.0 | | 73.8 | 70-130 | | | |
| Total Xylenes | 11.0 | 0.0250 | 15.0 | | 73.3 | 70-130 | | | |

Surrogate: 4-Bromochlorobenzene-PID 7.02 8.00 87.7 70-130

Matrix Spike (2436015-MS1) Source: E408283-10 Prepared: 09/03/24 Analyzed: 09/05/24

| | | | | | | | | | |
|---------------|------|--------|------|----|------|--------|--|--|--|
| Benzene | 4.45 | 0.0250 | 5.00 | ND | 89.0 | 54-133 | | | |
| Ethylbenzene | 4.23 | 0.0250 | 5.00 | ND | 84.6 | 61-133 | | | |
| Toluene | 4.36 | 0.0250 | 5.00 | ND | 87.3 | 61-130 | | | |
| o-Xylene | 4.20 | 0.0250 | 5.00 | ND | 84.1 | 63-131 | | | |
| p,m-Xylene | 8.59 | 0.0500 | 10.0 | ND | 85.9 | 63-131 | | | |
| Total Xylenes | 12.8 | 0.0250 | 15.0 | ND | 85.3 | 63-131 | | | |

Surrogate: 4-Bromochlorobenzene-PID 7.11 8.00 88.9 70-130

Matrix Spike Dup (2436015-MSD1) Source: E408283-10 Prepared: 09/03/24 Analyzed: 09/05/24

| | | | | | | | | | |
|---------------|------|--------|------|----|------|--------|------|----|--|
| Benzene | 5.02 | 0.0250 | 5.00 | ND | 100 | 54-133 | 12.0 | 20 | |
| Ethylbenzene | 4.80 | 0.0250 | 5.00 | ND | 96.0 | 61-133 | 12.6 | 20 | |
| Toluene | 4.93 | 0.0250 | 5.00 | ND | 98.6 | 61-130 | 12.2 | 20 | |
| o-Xylene | 4.77 | 0.0250 | 5.00 | ND | 95.3 | 63-131 | 12.6 | 20 | |
| p,m-Xylene | 9.74 | 0.0500 | 10.0 | ND | 97.4 | 63-131 | 12.5 | 20 | |
| Total Xylenes | 14.5 | 0.0250 | 15.0 | ND | 96.7 | 63-131 | 12.5 | 20 | |

Surrogate: 4-Bromochlorobenzene-PID 7.18 8.00 89.8 70-130



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/9/2024 11:59:18AM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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

Blank (2436015-BLK1) Prepared: 09/03/24 Analyzed: 09/04/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.21 | | 8.00 | | 90.2 | 70-130 | | | |

LCS (2436015-BS2) Prepared: 09/03/24 Analyzed: 09/04/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 35.6 | 20.0 | 50.0 | | 71.2 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.28 | | 8.00 | | 91.0 | 70-130 | | | |

Matrix Spike (2436015-MS2) Source: E408283-10 Prepared: 09/03/24 Analyzed: 09/05/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 40.7 | 20.0 | 50.0 | ND | 81.4 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.34 | | 8.00 | | 91.8 | 70-130 | | | |

Matrix Spike Dup (2436015-MSD2) Source: E408283-10 Prepared: 09/03/24 Analyzed: 09/05/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 39.1 | 20.0 | 50.0 | ND | 78.2 | 70-130 | 3.91 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.33 | | 8.00 | | 91.7 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/9/2024 11:59:18AM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2436008-BLK1) Prepared: 09/03/24 Analyzed: 09/03/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 47.4 | | 50.0 | | 94.8 | 50-200 | | | |

LCS (2436008-BS1) Prepared: 09/03/24 Analyzed: 09/03/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 264 | 25.0 | 250 | | 106 | 38-132 | | | |
| Surrogate: n-Nonane | 49.1 | | 50.0 | | 98.2 | 50-200 | | | |

Matrix Spike (2436008-MS1) Source: E408283-01 Prepared: 09/03/24 Analyzed: 09/03/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 277 | 25.0 | 250 | ND | 111 | 38-132 | | | |
| Surrogate: n-Nonane | 51.3 | | 50.0 | | 103 | 50-200 | | | |

Matrix Spike Dup (2436008-MSD1) Source: E408283-01 Prepared: 09/03/24 Analyzed: 09/03/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 267 | 25.0 | 250 | ND | 107 | 38-132 | 3.76 | 20 | |
| Surrogate: n-Nonane | 48.1 | | 50.0 | | 96.1 | 50-200 | | | |



QC Summary Data

| | | |
|---|--|--------------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/9/2024 11:59:18AM |
|---|--|--------------------------------------|

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 (2436018-BLK1) | | | | | Prepared: 09/03/24 Analyzed: 09/04/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2436018-BS1) | | | | | Prepared: 09/03/24 Analyzed: 09/04/24 | | | | |
| Chloride | 252 | 20.0 | 250 | | 101 | 90-110 | | | |
| Matrix Spike (2436018-MS1) | | | | | Source: E408283-03 | | Prepared: 09/03/24 Analyzed: 09/04/24 | | |
| Chloride | 1020 | 20.0 | 250 | 768 | 101 | 80-120 | | | |
| Matrix Spike Dup (2436018-MSD1) | | | | | Source: E408283-03 | | Prepared: 09/03/24 Analyzed: 09/04/24 | | |
| Chloride | 1020 | 20.0 | 250 | 768 | 102 | 80-120 | 0.0865 | 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: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/09/24 11:59 |

- 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 2

| Client Information | | | | Invoice Information | | Lab Use Only | | TAT | | | | State | | | | | | | | |
|---|--------------|--------|-------------------|--------------------------------------|--------------|--------------|-----------------|---|--------------|---------------------|----------------|-------------|----------------|---------------|------------|-----|------|-------------|--|--|
| Client: Matador Production Company | | | | Company: Ensolum LLC | | Lab WO# | | 1D 2D 3D Std | | | | NM CO UT TX | | | | | | | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | E408283 | | 23003-0002 | | | | 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 | | | | | |
| 1109 | 8/29/24 | Soil | 1 | PH07-8' | | 1 | | | | | | X | | | | | | | | |
| 1127 | 8/29/24 | Soil | 1 | PH07-10' | | 2 | | | | | | X | | | | | | | | |
| 1135 | 8/29/24 | Soil | 1 | PH07-12' | | 3 | | | | | | X | | | | | | | | |
| 1200 | 8/29/24 | Soil | 1 | PH07-14' | | 4 | | | | | | X | | | | | | | | |
| 1219 | 8/29/24 | Soil | 1 | PH07-16' | | 5 | | | | | | X | | | | | | | | |
| 1333 | 8/29/24 | Soil | 1 | PH08-0' | | 6 | | | | | | X | | | | | | | | |
| 1336 | 8/29/24 | Soil | 1 | PH08-2' | | 7 | | | | | | X | | | | | | | | |
| 1353 | 8/29/24 | Soil | 1 | PH08-4' | | 8 | | | | | | X | | | | | | | | |
| 1400 | 8/29/24 | Soil | 1 | PH08-6' | | 9 | | | | | | X | | | | | | | | |
| 1415 | 8/29/24 | Soil | 1 | PH08-8' | | 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: 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. | | | | | | | | | | | | | | | | | | | | |



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: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | | | E408283 | | 23003-0002 | | | | | x | x | | | | | | | | | | |
| Project Manager: Ashley Giovengo | | | | City, State, Zip: Carlsbad NM, 88220 | | | | Analysis and Method | | | | | | | | | | EPA Program | | | | | | | | |
| Address: 3122 National Parks Hwy | | | | Phone: 575-988-0055 | | | | | | | | | | | | | | SDWA | | | CWA | | | RCRA | | |
| City, State, Zip: Carlsbad NM, 88220 | | | | Email: agiovengo@ensolum.com | | | | | | | | | | | | | | Compliance | | | Y | | | or | | |
| Phone: 575-988-0055 | | | | Miscellaneous: | | | | PWSID # | | | | | | | | | | | | | | | | | | |
| Email: agiovengo@ensolum.com | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Information | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | Remarks | | | | | | | | | | |
| 1430 | 8/29/24 | Soil | 1 | PH04 - 10' | | | 11 | | | | | | | | | | | | | | | | | | | |
| 1437 | 8/29/24 | Soil | 1 | PH04 - 12' | | | 12 | | | | | | | | | | | | | | | | | | | |
| 0927 | 8/29/24 | Soil | 1 | SS03 - 0' | | | 13 | | | | | | | | | | | | | | | | | | | |
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| 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 | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | Lab Use Only | | | | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | Received on ice: Y / N | | | | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | T1 T2 T3 | | | | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | 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. | | | | | | | | | | | | | | | | | | | | | | | | | | |



Envirotech Analytical Laboratory

Printed: 9/3/2024 7:18:36AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

| | | | | | |
|---------|-------------------------|-----------------|----------------------------|----------------|---------------|
| Client: | Matador Resources, LLC. | Date Received: | 09/03/24 05:00 | Work Order ID: | E408283 |
| Phone: | (972) 371-5200 | Date Logged In: | 08/30/24 16:03 | Logged In By: | Raina Schwanz |
| Email: | agiovngo@ensolum.com | Due Date: | 09/09/24 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? 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: Ray State Slot 4

Work Order: E409005

Job Number: 23003-0002

Received: 9/4/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/10/24

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: 9/10/24

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



Project Name: Ray State Slot 4
Workorder: E409005
Date Received: 9/4/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/4/2024 6:00:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | |
|---|--|-----------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 09/10/24 12:27 |
|---|--|-----------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| PH09 0' | E409005-01A | Soil | 08/30/24 | 09/04/24 | Glass Jar, 2 oz. |
| PH09 2' | E409005-02A | Soil | 08/30/24 | 09/04/24 | Glass Jar, 2 oz. |
| PH09 4' | E409005-03A | Soil | 08/30/24 | 09/04/24 | Glass Jar, 2 oz. |
| PH09 6' | E409005-04A | Soil | 08/30/24 | 09/04/24 | Glass Jar, 2 oz. |
| PH09 8' | E409005-05A | Soil | 08/30/24 | 09/04/24 | Glass Jar, 2 oz. |
| PH09 10' | E409005-06A | Soil | 08/30/24 | 09/04/24 | Glass Jar, 2 oz. |
| PH09 12' | E409005-07A | Soil | 08/30/24 | 09/04/24 | Glass Jar, 2 oz. |
| PH09 14' | E409005-08A | Soil | 08/30/24 | 09/04/24 | Glass Jar, 2 oz. |
| PH09 16' | E409005-09A | Soil | 08/30/24 | 09/04/24 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/10/2024 12:27:13PM

PH09 0'

E409005-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Benzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Toluene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/04/24 | 09/06/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 98.1 % | 70-130 | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 94.8 % | 70-130 | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2436053 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/05/24 | 09/09/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/05/24 | 09/09/24 | |
| <i>Surrogate: n-Nonane</i> | | 86.4 % | 50-200 | 09/05/24 | 09/09/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2436030 | |
| Chloride | 2240 | 40.0 | 2 | 09/04/24 | 09/04/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/10/2024 12:27:13PM

PH09 2'

E409005-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Benzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Toluene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/04/24 | 09/06/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 98.0 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 95.4 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2436053 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/05/24 | 09/09/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/05/24 | 09/09/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 74.5 % | 50-200 | | 09/05/24 | 09/09/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2436030 | |
| Chloride | 1770 | 20.0 | 1 | 09/04/24 | 09/04/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/10/2024 12:27:13PM

PH09 4'

E409005-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Benzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Toluene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/04/24 | 09/06/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 97.9 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 95.6 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2436053 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/05/24 | 09/09/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/05/24 | 09/09/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 75.3 % | 50-200 | | 09/05/24 | 09/09/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2436030 | |
| Chloride | 1860 | 20.0 | 1 | 09/04/24 | 09/04/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/10/2024 12:27:13PM

PH09 6'

E409005-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Benzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Toluene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/04/24 | 09/06/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | 96.5 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | 95.4 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2436053 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/05/24 | 09/09/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/05/24 | 09/09/24 | |
| <i>Surrogate: n-Nonane</i> | 72.8 % | 50-200 | | 09/05/24 | 09/09/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2436030 | |
| Chloride | 2060 | 40.0 | 2 | 09/04/24 | 09/05/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/10/2024 12:27:13PM

PH09 8'

E409005-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Benzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Toluene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/04/24 | 09/06/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 98.3 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 94.4 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2436053 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/05/24 | 09/09/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/05/24 | 09/09/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 75.0 % | 50-200 | | 09/05/24 | 09/09/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2436030 | |
| Chloride | 2120 | 40.0 | 2 | 09/04/24 | 09/05/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/10/2024 12:27:13PM

PH09 10'

E409005-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Benzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Toluene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/04/24 | 09/06/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 97.8 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 94.7 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2436053 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/05/24 | 09/09/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/05/24 | 09/09/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 74.0 % | 50-200 | | 09/05/24 | 09/09/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2436030 | |
| Chloride | 1280 | 20.0 | 1 | 09/04/24 | 09/05/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/10/2024 12:27:13PM

PH09 12'

E409005-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Benzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Toluene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/04/24 | 09/06/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 97.1 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: CG | | Batch: 2436031 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 96.4 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2436053 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/05/24 | 09/09/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/05/24 | 09/09/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 78.8 % | 50-200 | | 09/05/24 | 09/09/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2436030 | |
| Chloride | 414 | 20.0 | 1 | 09/04/24 | 09/05/24 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/10/2024 12:27:13PM

PH09 14'

E409005-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2436031 | |
| Benzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Toluene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/04/24 | 09/06/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 98.0 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2436031 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/04/24 | 09/06/24 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 95.5 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: NV | | Batch: 2436053 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/05/24 | 09/09/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/05/24 | 09/09/24 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 74.4 % | 50-200 | | 09/05/24 | 09/09/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2436030 | |
| Chloride | 923 | 20.0 | 1 | 09/04/24 | 09/05/24 | |



Sample Data

| | | |
|---|--|-----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 9/10/2024 12:27:13PM |
|---|--|-----------------------------------|

PH09 16'
E409005-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2436031 | |
| Benzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Toluene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| o-Xylene | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 09/04/24 | 09/06/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 09/04/24 | 09/06/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | 98.9 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2436031 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 09/04/24 | 09/06/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 95.7 % | 70-130 | | 09/04/24 | 09/06/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: NV | | Batch: 2436053 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 09/05/24 | 09/09/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 09/05/24 | 09/09/24 | |
| Surrogate: n-Nonane | 71.6 % | 50-200 | | 09/05/24 | 09/09/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: IY | | Batch: 2436030 | |
| Chloride | 790 | 20.0 | 1 | 09/04/24 | 09/05/24 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|----------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/10/2024 12:27:13PM |

Volatile Organics by EPA 8021B

Analyst: CG

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

Blank (2436031-BLK1) Prepared: 09/04/24 Analyzed: 09/06/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| 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 | 7.68 | | 8.00 | | 96.0 | 70-130 | | | |

LCS (2436031-BS1) Prepared: 09/04/24 Analyzed: 09/06/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 5.17 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| Ethylbenzene | 4.96 | 0.0250 | 5.00 | | 99.1 | 70-130 | | | |
| Toluene | 5.08 | 0.0250 | 5.00 | | 102 | 70-130 | | | |
| o-Xylene | 4.95 | 0.0250 | 5.00 | | 99.1 | 70-130 | | | |
| p,m-Xylene | 10.1 | 0.0500 | 10.0 | | 101 | 70-130 | | | |
| Total Xylenes | 15.0 | 0.0250 | 15.0 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.85 | | 8.00 | | 98.1 | 70-130 | | | |

Matrix Spike (2436031-MS1) Source: E409005-04 Prepared: 09/04/24 Analyzed: 09/06/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene | 5.14 | 0.0250 | 5.00 | ND | 103 | 54-133 | | | |
| Ethylbenzene | 4.94 | 0.0250 | 5.00 | ND | 98.7 | 61-133 | | | |
| Toluene | 5.06 | 0.0250 | 5.00 | ND | 101 | 61-130 | | | |
| o-Xylene | 4.92 | 0.0250 | 5.00 | ND | 98.4 | 63-131 | | | |
| p,m-Xylene | 10.0 | 0.0500 | 10.0 | ND | 100 | 63-131 | | | |
| Total Xylenes | 14.9 | 0.0250 | 15.0 | ND | 99.7 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.81 | | 8.00 | | 97.6 | 70-130 | | | |

Matrix Spike Dup (2436031-MSD1) Source: E409005-04 Prepared: 09/04/24 Analyzed: 09/06/24

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|-------|----|--|
| Benzene | 5.16 | 0.0250 | 5.00 | ND | 103 | 54-133 | 0.398 | 20 | |
| Ethylbenzene | 4.97 | 0.0250 | 5.00 | ND | 99.5 | 61-133 | 0.715 | 20 | |
| Toluene | 5.08 | 0.0250 | 5.00 | ND | 102 | 61-130 | 0.424 | 20 | |
| o-Xylene | 4.96 | 0.0250 | 5.00 | ND | 99.1 | 63-131 | 0.758 | 20 | |
| p,m-Xylene | 10.1 | 0.0500 | 10.0 | ND | 101 | 63-131 | 0.660 | 20 | |
| Total Xylenes | 15.1 | 0.0250 | 15.0 | ND | 100 | 63-131 | 0.692 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.80 | | 8.00 | | 97.5 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|----------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/10/2024 12:27:13PM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

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

Blank (2436031-BLK1) Prepared: 09/04/24 Analyzed: 09/06/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.64 | | 8.00 | | 95.5 | 70-130 | | | |

LCS (2436031-BS2) Prepared: 09/04/24 Analyzed: 09/06/24

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 44.0 | 20.0 | 50.0 | | 88.0 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.83 | | 8.00 | | 97.9 | 70-130 | | | |

Matrix Spike (2436031-MS2) Source: E409005-04 Prepared: 09/04/24 Analyzed: 09/06/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 42.1 | 20.0 | 50.0 | ND | 84.1 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.65 | | 8.00 | | 95.7 | 70-130 | | | |

Matrix Spike Dup (2436031-MSD2) Source: E409005-04 Prepared: 09/04/24 Analyzed: 09/06/24

| | | | | | | | | | |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 42.9 | 20.0 | 50.0 | ND | 85.9 | 70-130 | 2.06 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.68 | | 8.00 | | 96.0 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|----------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/10/2024 12:27:13PM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2436053-BLK1) Prepared: 09/05/24 Analyzed: 09/08/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 41.7 | | 50.0 | | 83.3 | 50-200 | | | |

LCS (2436053-BS1) Prepared: 09/05/24 Analyzed: 09/08/24

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 195 | 25.0 | 250 | | 78.1 | 38-132 | | | |
| Surrogate: n-Nonane | 43.4 | | 50.0 | | 86.9 | 50-200 | | | |

Matrix Spike (2436053-MS1) Source: E409005-01 Prepared: 09/05/24 Analyzed: 09/08/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 197 | 25.0 | 250 | ND | 78.7 | 38-132 | | | |
| Surrogate: n-Nonane | 41.9 | | 50.0 | | 83.7 | 50-200 | | | |

Matrix Spike Dup (2436053-MSD1) Source: E409005-01 Prepared: 09/05/24 Analyzed: 09/09/24

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 188 | 25.0 | 250 | ND | 75.3 | 38-132 | 4.42 | 20 | |
| Surrogate: n-Nonane | 41.4 | | 50.0 | | 82.8 | 50-200 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|----------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 9/10/2024 12:27:13PM |

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 (2436030-BLK1) | | | | | Prepared: 09/04/24 Analyzed: 09/04/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2436030-BS1) | | | | | Prepared: 09/04/24 Analyzed: 09/04/24 | | | | |
| Chloride | 251 | 20.0 | 250 | | 101 | 90-110 | | | |
| Matrix Spike (2436030-MS1) | | | | | Source: E408286-22 | | Prepared: 09/04/24 Analyzed: 09/04/24 | | |
| Chloride | 358 | 20.0 | 250 | 102 | 102 | 80-120 | | | |
| Matrix Spike Dup (2436030-MSD1) | | | | | Source: E408286-22 | | Prepared: 09/04/24 Analyzed: 09/04/24 | | |
| Chloride | 333 | 20.0 | 250 | 102 | 92.4 | 80-120 | 7.22 | 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: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 09/10/24 12:27 |

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.



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# | | 1D 2D 3D Std | | | | NM CO UT TX | | | | | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | E409005 | | 23003-m02 | | | | 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 | |
| 9:28 | 8/30/24 | Soil | 1 | PH09 0' | | 1 | | | | | | X | | | | | | |
| 9:35 | 8/30/24 | Soil | 1 | PH09 2' | | 2 | | | | | | X | | | | | | |
| 9:46 | 8/30/24 | Soil | 1 | PH09 4' | | 3 | | | | | | X | | | | | | |
| 10:54 | 8/30/24 | Soil | 1 | PH09 6' | | 4 | | | | | | X | | | | | | |
| 11:05 | 8/30/24 | Soil | 1 | PH09 8' | | 5 | | | | | | X | | | | | | |
| 12:14 | 8/30/24 | Soil | 1 | PH09 10' | | 6 | | | | | | X | | | | | | |
| 12:23 | 8/30/24 | Soil | 1 | PH09 12' | | 7 | | | | | | X | | | | | | |
| 13:47 | 8/30/24 | Soil | 1 | PH09 14' | | 8 | | | | | | X | | | | | | |
| 14:03 | 8/30/24 | Soil | 1 | PH09 16' | | 9 | | | | | | X | | | | | | |
| Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@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: <u>Daniel Okoro - Sokoh</u> | | | | | | | | | | | | | | | | | | |
| 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 / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u> | | | | | | | | | | |
| <u>[Signature]</u> | | 8/30/24 | 16:20 | <u>Michelle Gonzales</u> | | 9.3.24 | 0921 | | | | | | | | | | | |
| <u>Michelle Gonzales</u> | | 9.3.24 | 1530 | <u>[Signature]</u> | | 9.3.24 | 1530 | | | | | | | | | | | |
| <u>[Signature]</u> | | 9.3.24 | 2130 | <u>[Signature]</u> | | 9.4.24 | 0600 | | | | | | | | | | | |
| 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: 9/4/2024 6:17:17AM

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: | 09/04/24 06:00 | Work Order ID: | E409005 |
| Phone: | (972) 371-5200 | Date Logged In: | 09/03/24 17:42 | Logged In By: | Noe Soto |
| Email: | agiovngo@ensolum.com | Due Date: | 09/10/24 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? 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: Ray State Slot 4

Work Order: E502271

Job Number: 23003-0002

Received: 2/27/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/25

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: 3/5/25

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



Project Name: Ray State Slot 4
Workorder: E502271
Date Received: 2/27/2025 4:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/27/2025 4:30:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | | |
|------------------------------|------------------|------------------|----------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 03/05/25 08:31 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| FS02-2' | E502271-01A | Soil | 02/25/25 | 02/27/25 | Glass Jar, 2 oz. |
| FS03-2' | E502271-02A | Soil | 02/25/25 | 02/27/25 | Glass Jar, 2 oz. |
| FS04-2' | E502271-03A | Soil | 02/25/25 | 02/27/25 | Glass Jar, 2 oz. |
| FS07-1' | E502271-04A | Soil | 02/25/25 | 02/27/25 | Glass Jar, 2 oz. |
| FS37-1' | E502271-05A | Soil | 02/25/25 | 02/27/25 | Glass Jar, 2 oz. |
| FS38-1' | E502271-06A | Soil | 02/25/25 | 02/27/25 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/5/2025 8:31:45AM

FS02-2'

E502271-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2509100 | |
| Benzene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| Toluene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/25 | 03/01/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | 83.5 % | 70-130 | | 02/27/25 | 03/01/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2509100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/25 | 03/01/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | 93.3 % | 70-130 | | 02/27/25 | 03/01/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KH | | Batch: 2509096 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/25 | 02/27/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/25 | 02/27/25 | |
| <i>Surrogate: n-Nonane</i> | 90.2 % | 61-141 | | 02/27/25 | 02/27/25 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2509103 | |
| Chloride | 4450 | 40.0 | 2 | 02/27/25 | 02/27/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/5/2025 8:31:45AM

FS03-2'

E502271-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: BA | | Batch: 2509100 | |
| Benzene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| Toluene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/25 | 03/01/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | 84.6 % | 70-130 | | 02/27/25 | 03/01/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: BA | | Batch: 2509100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/25 | 03/01/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | 93.2 % | 70-130 | | 02/27/25 | 03/01/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KH | | Batch: 2509096 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/25 | 02/27/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/25 | 02/27/25 | |
| <i>Surrogate: n-Nonane</i> | 84.7 % | 61-141 | | 02/27/25 | 02/27/25 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2509103 | |
| Chloride | 1860 | 40.0 | 2 | 02/27/25 | 02/27/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/5/2025 8:31:45AM

FS04-2'

E502271-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2509100 | |
| Benzene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| Toluene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/25 | 03/01/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 81.5 % | 70-130 | | 02/27/25 | 03/01/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2509100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/25 | 03/01/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.9 % | 70-130 | | 02/27/25 | 03/01/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509096 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/25 | 02/27/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/25 | 02/27/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 88.4 % | 61-141 | | 02/27/25 | 02/27/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2509103 | |
| Chloride | 2040 | 40.0 | 2 | 02/27/25 | 02/27/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/5/2025 8:31:45AM

FS07-1'

E502271-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2509100 | |
| Benzene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| Toluene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/25 | 03/01/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 85.6 % | 70-130 | | 02/27/25 | 03/01/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2509100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/25 | 03/01/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.5 % | 70-130 | | 02/27/25 | 03/01/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509096 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/25 | 02/27/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/25 | 02/27/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 87.1 % | 61-141 | | 02/27/25 | 02/27/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2509103 | |
| Chloride | 2070 | 40.0 | 2 | 02/27/25 | 02/27/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/5/2025 8:31:45AM

FS37-1'

E502271-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2509100 | |
| Benzene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| Toluene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/25 | 03/01/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 87.1 % | 70-130 | | 02/27/25 | 03/01/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2509100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/25 | 03/01/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.6 % | 70-130 | | 02/27/25 | 03/01/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509096 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/25 | 02/27/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/25 | 02/27/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 86.7 % | 61-141 | | 02/27/25 | 02/27/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2509103 | |
| Chloride | 1660 | 20.0 | 1 | 02/27/25 | 02/27/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/5/2025 8:31:45AM

FS38-1'

E502271-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2509100 | |
| Benzene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| Toluene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/27/25 | 03/01/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/27/25 | 03/01/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 88.0 % | 70-130 | | 02/27/25 | 03/01/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: BA | | Batch: 2509100 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/27/25 | 03/01/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.9 % | 70-130 | | 02/27/25 | 03/01/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509096 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/27/25 | 02/27/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/27/25 | 02/27/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 87.6 % | 61-141 | | 02/27/25 | 02/27/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: DT | | Batch: 2509103 | |
| Chloride | 1280 | 20.0 | 1 | 02/27/25 | 02/27/25 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/5/2025 8:31:45AM |

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 (2509100-BLK1)

Prepared: 02/27/25 Analyzed: 03/01/25

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| 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 | 6.71 | | 8.00 | | 83.8 | 70-130 | | | |

LCS (2509100-BS1)

Prepared: 02/27/25 Analyzed: 03/01/25

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 4.87 | 0.0250 | 5.00 | | 97.3 | 70-130 | | | |
| Ethylbenzene | 4.73 | 0.0250 | 5.00 | | 94.6 | 70-130 | | | |
| Toluene | 4.83 | 0.0250 | 5.00 | | 96.7 | 70-130 | | | |
| o-Xylene | 4.67 | 0.0250 | 5.00 | | 93.4 | 70-130 | | | |
| p,m-Xylene | 9.60 | 0.0500 | 10.0 | | 96.0 | 70-130 | | | |
| Total Xylenes | 14.3 | 0.0250 | 15.0 | | 95.1 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 6.60 | | 8.00 | | 82.5 | 70-130 | | | |

Matrix Spike (2509100-MS1)

Source: E502271-03

Prepared: 02/27/25 Analyzed: 03/01/25

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene | 5.02 | 0.0250 | 5.00 | ND | 100 | 54-133 | | | |
| Ethylbenzene | 4.87 | 0.0250 | 5.00 | ND | 97.4 | 61-133 | | | |
| Toluene | 4.97 | 0.0250 | 5.00 | ND | 99.5 | 61-130 | | | |
| o-Xylene | 4.80 | 0.0250 | 5.00 | ND | 96.0 | 63-131 | | | |
| p,m-Xylene | 9.87 | 0.0500 | 10.0 | ND | 98.7 | 63-131 | | | |
| Total Xylenes | 14.7 | 0.0250 | 15.0 | ND | 97.8 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 6.50 | | 8.00 | | 81.3 | 70-130 | | | |

Matrix Spike Dup (2509100-MSD1)

Source: E502271-03

Prepared: 02/27/25 Analyzed: 03/01/25

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|------|----|--|
| Benzene | 5.14 | 0.0250 | 5.00 | ND | 103 | 54-133 | 2.29 | 20 | |
| Ethylbenzene | 4.98 | 0.0250 | 5.00 | ND | 99.6 | 61-133 | 2.23 | 20 | |
| Toluene | 5.08 | 0.0250 | 5.00 | ND | 102 | 61-130 | 2.17 | 20 | |
| o-Xylene | 4.90 | 0.0250 | 5.00 | ND | 98.0 | 63-131 | 2.15 | 20 | |
| p,m-Xylene | 10.1 | 0.0500 | 10.0 | ND | 101 | 63-131 | 1.99 | 20 | |
| Total Xylenes | 15.0 | 0.0250 | 15.0 | ND | 99.8 | 63-131 | 2.04 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 6.49 | | 8.00 | | 81.2 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/5/2025 8:31:45AM |

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 (2509100-BLK1) Prepared: 02/27/25 Analyzed: 03/01/25

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.40 | | 8.00 | | 92.5 | 70-130 | | | |

LCS (2509100-BS2) Prepared: 02/27/25 Analyzed: 03/01/25

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 47.1 | 20.0 | 50.0 | | 94.2 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.59 | | 8.00 | | 94.8 | 70-130 | | | |

Matrix Spike (2509100-MS2) Source: E502271-03 Prepared: 02/27/25 Analyzed: 03/01/25

| | | | | | | | | | |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 46.7 | 20.0 | 50.0 | ND | 93.4 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.54 | | 8.00 | | 94.2 | 70-130 | | | |

Matrix Spike Dup (2509100-MSD2) Source: E502271-03 Prepared: 02/27/25 Analyzed: 03/01/25

| | | | | | | | | | |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 42.7 | 20.0 | 50.0 | ND | 85.4 | 70-130 | 9.00 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.50 | | 8.00 | | 93.8 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/5/2025 8:31:45AM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

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

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2509096-BLK1) | | | | | Prepared: 02/27/25 Analyzed: 02/27/25 | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 42.6 | | 50.0 | | 85.1 | 61-141 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2509096-BS1) | | | | | Prepared: 02/27/25 Analyzed: 02/27/25 | | | | |
| Diesel Range Organics (C10-C28) | 197 | 25.0 | 250 | | 78.7 | 66-144 | | | |
| Surrogate: n-Nonane | 43.3 | | 50.0 | | 86.6 | 61-141 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2509096-MS1) | | | | | Source: E502271-05 | | Prepared: 02/27/25 Analyzed: 02/27/25 | | |
| Diesel Range Organics (C10-C28) | 215 | 25.0 | 250 | ND | 85.8 | 56-156 | | | |
| Surrogate: n-Nonane | 46.1 | | 50.0 | | 92.1 | 61-141 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2509096-MSD1) | | | | | Source: E502271-05 | | Prepared: 02/27/25 Analyzed: 02/27/25 | | |
| Diesel Range Organics (C10-C28) | 204 | 25.0 | 250 | ND | 81.5 | 56-156 | 5.23 | 20 | |
| Surrogate: n-Nonane | 44.0 | | 50.0 | | 88.1 | 61-141 | | | |



QC Summary Data

| | | |
|---|--|-------------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 3/5/2025 8:31:45AM |
|---|--|-------------------------------------|

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 (2509103-BLK1) | | | | | Prepared: 02/27/25 Analyzed: 02/27/25 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2509103-BS1) | | | | | Prepared: 02/27/25 Analyzed: 02/27/25 | | | | |
| Chloride | 257 | 20.0 | 250 | | 103 | 90-110 | | | |
| Matrix Spike (2509103-MS1) | | | | | Source: E502271-01 | | Prepared: 02/27/25 Analyzed: 02/27/25 | | |
| Chloride | 4620 | 40.0 | 250 | 4450 | 66.5 | 80-120 | | | M4 |
| Matrix Spike Dup (2509103-MSD1) | | | | | Source: E502271-01 | | Prepared: 02/27/25 Analyzed: 02/27/25 | | |
| Chloride | 4860 | 40.0 | 250 | 4450 | 165 | 80-120 | 5.18 | 20 | M4 |

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



Definitions and Notes

| | | | |
|------------------------------|------------------|------------------|----------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 03/05/25 08:31 |

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Chain of Custody

Page 1 of 1

| Client Information | | | | Invoice Information | | Lab Use Only | | TAT | | | | State | | | | | |
|---|--------------|--------|-------------------|--------------------------------------|--------------|---------------------|-----------------|--|--------------|-------------|----------------|--|----------------|---------------|------|-----|------|
| Client: Matador | | | | Company: Ensolum LLC | | Lab WO# | | 1D 2D 3D Std | | | | NM CO UT TX | | | | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | E502271 | | Job Number | | | | 23A03-0002 | | | | | |
| Project Manager: Ashley Giovengo | | | | City, State, Zip: Carlsbad NM, 88220 | | | | | | | | X | | | | | |
| 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 |
| 11:38 | 2/25/2025 | S | 1 | FS02 - 2' | | 1 | | | | | | X | | | | | |
| 8:49 | 2/25/2025 | S | 1 | FS03 - 2' | | 2 | | | | | | X | | | | | |
| 8:50 | 2/25/2025 | S | 1 | FS04 - 2' | | 3 | | | | | | X | | | | | |
| 16:08 | 2/25/2025 | S | 1 | FS07 - 1' | | 4 | | | | | | X | | | | | |
| 12:43 | 2/25/2025 | S | 1 | FS37 - 1' | | 5 | | | | | | X | | | | | |
| 12:54 | 2/25/2025 | S | 1 | FS38 - 1' | | 6 | | | | | | X | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@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: Higinio Gonzalez | | | | | | | | | | | | | | | | | |
| 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: 2/27/2025 10:18:41AM

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. | Date Received: | 02/27/25 04:30 | Work Order ID: | E502271 |
| Phone: | (972) 371-5200 | Date Logged In: | 02/26/25 14:52 | Logged In By: | Caitlin Mars |
| Email: | agiovento@ensolum.com | Due Date: | 03/05/25 17:00 (4 day TAT) | | |

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

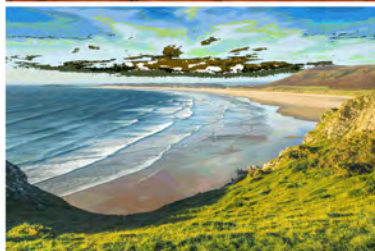
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Ray State Slot 4

Work Order: E502283

Job Number: 23003-0002

Received: 2/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/6/25

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: 3/6/25

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



Project Name: Ray State Slot 4
Workorder: E502283
Date Received: 2/28/2025 4:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2025 4:30:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | |
|---|--|-----------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 03/06/25 13:07 |
|---|--|-----------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| FS01-2.5' | E502283-01A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS05-1.5' | E502283-02A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS06-1.5' | E502283-03A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS08-1' | E502283-04A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS09-1.5' | E502283-05A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS10-1.5' | E502283-06A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS11-1.5' | E502283-07A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS12-1' | E502283-08A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS13-1' | E502283-09A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS14-1' | E502283-10A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS20-1' | E502283-11A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS21-1' | E502283-12A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS25-1' | E502283-13A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS26-1' | E502283-14A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS01-2.5'

E502283-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 82.2 % | 70-130 | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 92.1 % | 70-130 | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | 91.1 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 1520 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS05-1.5'

E502283-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 81.3 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 93.0 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 101 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 1180 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS06-1.5'

E502283-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 81.3 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.3 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 98.9 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 703 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS08-1'

E502283-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | 81.7 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | 93.8 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | 91.4 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 237 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS09-1.5'

E502283-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 83.0 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.6 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 96.2 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 1210 | 40.0 | 2 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS10-1.5'

E502283-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 81.2 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 90.8 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 102 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 998 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS11-1.5'

E502283-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 81.7 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.4 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 99.6 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 2040 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS12-1'

E502283-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 80.9 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.8 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | 36.0 | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | 50.6 | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 85.6 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 1490 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS13-1'

E502283-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 82.3 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.4 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 91.1 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 770 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS14-1'

E502283-10

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 80.9 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.8 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | 30.4 | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 87.5 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 135 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS20-1'

E502283-11

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 80.6 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.8 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 90.4 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 280 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS21-1'

E502283-12

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 80.5 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.5 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 90.8 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 1250 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS25-1'

E502283-13

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 80.4 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.6 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 84.1 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 3340 | 40.0 | 2 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 1:07:03PM

FS26-1'

E502283-14

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/02/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 81.0 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509121 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/02/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.4 % | 70-130 | | 02/28/25 | 03/02/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509116 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 82.4 % | 61-141 | | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: AK | | Batch: 2509124 | |
| Chloride | 3190 | 40.0 | 2 | 02/28/25 | 02/28/25 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/6/2025 1:07:03PM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2509121-BLK1)

Prepared: 02/28/25 Analyzed: 03/02/25

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| 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 | 6.68 | | 8.00 | | 83.5 | 70-130 | | | |

LCS (2509121-BS1)

Prepared: 02/28/25 Analyzed: 03/02/25

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 4.90 | 0.0250 | 5.00 | | 97.9 | 70-130 | | | |
| Ethylbenzene | 4.77 | 0.0250 | 5.00 | | 95.5 | 70-130 | | | |
| Toluene | 4.87 | 0.0250 | 5.00 | | 97.5 | 70-130 | | | |
| o-Xylene | 4.80 | 0.0250 | 5.00 | | 96.1 | 70-130 | | | |
| p,m-Xylene | 9.71 | 0.0500 | 10.0 | | 97.1 | 70-130 | | | |
| Total Xylenes | 14.5 | 0.0250 | 15.0 | | 96.7 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 6.67 | | 8.00 | | 83.4 | 70-130 | | | |

Matrix Spike (2509121-MS1)

Source: E502283-05

Prepared: 02/28/25 Analyzed: 03/02/25

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene | 5.05 | 0.0250 | 5.00 | ND | 101 | 54-133 | | | |
| Ethylbenzene | 4.90 | 0.0250 | 5.00 | ND | 97.9 | 61-133 | | | |
| Toluene | 5.00 | 0.0250 | 5.00 | ND | 100 | 61-130 | | | |
| o-Xylene | 4.90 | 0.0250 | 5.00 | ND | 97.9 | 63-131 | | | |
| p,m-Xylene | 9.94 | 0.0500 | 10.0 | ND | 99.4 | 63-131 | | | |
| Total Xylenes | 14.8 | 0.0250 | 15.0 | ND | 98.9 | 63-131 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 6.72 | | 8.00 | | 84.0 | 70-130 | | | |

Matrix Spike Dup (2509121-MSD1)

Source: E502283-05

Prepared: 02/28/25 Analyzed: 03/02/25

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|-------|----|--|
| Benzene | 5.08 | 0.0250 | 5.00 | ND | 102 | 54-133 | 0.613 | 20 | |
| Ethylbenzene | 4.92 | 0.0250 | 5.00 | ND | 98.4 | 61-133 | 0.444 | 20 | |
| Toluene | 5.04 | 0.0250 | 5.00 | ND | 101 | 61-130 | 0.713 | 20 | |
| o-Xylene | 4.94 | 0.0250 | 5.00 | ND | 98.7 | 63-131 | 0.814 | 20 | |
| p,m-Xylene | 10.0 | 0.0500 | 10.0 | ND | 100 | 63-131 | 0.597 | 20 | |
| Total Xylenes | 14.9 | 0.0250 | 15.0 | ND | 99.5 | 63-131 | 0.669 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 6.58 | | 8.00 | | 82.2 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/6/2025 1:07:03PM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2509121-BLK1) Prepared: 02/28/25 Analyzed: 03/02/25

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

LCS (2509121-BS2) Prepared: 02/28/25 Analyzed: 03/02/25

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 39.2 | 20.0 | 50.0 | | 78.4 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.51 | | 8.00 | | 93.9 | 70-130 | | | |

Matrix Spike (2509121-MS2) Source: E502283-05 Prepared: 02/28/25 Analyzed: 03/02/25

| | | | | | | | | | |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 39.2 | 20.0 | 50.0 | ND | 78.4 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.36 | | 8.00 | | 92.0 | 70-130 | | | |

Matrix Spike Dup (2509121-MSD2) Source: E502283-05 Prepared: 02/28/25 Analyzed: 03/02/25

| | | | | | | | | | |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 39.9 | 20.0 | 50.0 | ND | 79.9 | 70-130 | 1.88 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.39 | | 8.00 | | 92.3 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/6/2025 1:07:03PM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

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

Blank (2509116-BLK1) Prepared: 02/28/25 Analyzed: 03/01/25

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 43.1 | | 50.0 | | 86.2 | 61-141 | | | |

LCS (2509116-BS1) Prepared: 02/28/25 Analyzed: 03/01/25

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 202 | 25.0 | 250 | | 80.7 | 66-144 | | | |
| Surrogate: n-Nonane | 42.2 | | 50.0 | | 84.4 | 61-141 | | | |

Matrix Spike (2509116-MS1) Source: E502283-03 Prepared: 02/28/25 Analyzed: 03/01/25

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 216 | 25.0 | 250 | ND | 86.4 | 56-156 | | | |
| Surrogate: n-Nonane | 46.3 | | 50.0 | | 92.6 | 61-141 | | | |

Matrix Spike Dup (2509116-MSD1) Source: E502283-03 Prepared: 02/28/25 Analyzed: 03/01/25

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 196 | 25.0 | 250 | ND | 78.5 | 56-156 | 9.49 | 20 | |
| Surrogate: n-Nonane | 35.2 | | 50.0 | | 70.3 | 61-141 | | | |



QC Summary Data

| | | |
|---|--|-------------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 3/6/2025 1:07:03PM |
|---|--|-------------------------------------|

Anions by EPA 300.0/9056A

Analyst: AK

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

| | | | | | | | | | |
|---------------------------------|-----|------|-----|-----|---------------------------------------|--------|---------------------------------------|----|--|
| Blank (2509124-BLK1) | | | | | Prepared: 02/28/25 Analyzed: 02/28/25 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2509124-BS1) | | | | | Prepared: 02/28/25 Analyzed: 02/28/25 | | | | |
| Chloride | 254 | 20.0 | 250 | | 102 | 90-110 | | | |
| Matrix Spike (2509124-MS1) | | | | | Source: E502283-10 | | Prepared: 02/28/25 Analyzed: 02/28/25 | | |
| Chloride | 383 | 20.0 | 250 | 135 | 98.9 | 80-120 | | | |
| Matrix Spike Dup (2509124-MSD1) | | | | | Source: E502283-10 | | Prepared: 02/28/25 Analyzed: 02/28/25 | | |
| Chloride | 388 | 20.0 | 250 | 135 | 101 | 80-120 | 1.39 | 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: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 03/06/25 13:07 |

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 4

| Client Information | | | | Invoice Information | | Lab Use Only | | TAT | | | | State | | | | | |
|---|--------------|---------|-------------------|--------------------------------------|--------------|--------------------------|-----------------|-----------------|--------------|---------------------|----------------|--|----------------|---------------|------|-----|------|
| Client: Matador | | | | Company: Ensolum LLC | | Lab WO# | | 1D 2D 3D Std | | | | NM CO UT TX | | | | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | E502283 | | 23003-0002 | | | | 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 |
| 0916 | 2/26/25 | Soil | 1 | FS01-2.5' | | 1 | | | | | | + | | | | | |
| 0913 | | | | 05-1.5' | | 2 | | | | | | + | | | | | |
| 0914 | | | | 06-1.5' | | 3 | | | | | | + | | | | | |
| 0919 | | | | 08-1' | | 4 | | | | | | + | | | | | |
| 0912 | | | | 09-1.5' | | 5 | | | | | | + | | | | | |
| 0914 | | | | 10-1.5' | | 6 | | | | | | + | | | | | |
| 0914 | | | | 11-1.5' | | 7 | | | | | | + | | | | | |
| 0915 | | | | 12-1' | | 8 | | | | | | + | | | | | |
| 0919 | | | | 13-1' | | 9 | | | | | | + | | | | | |
| 0925 | | | | 14-1' | | 10 | | | | | | + | | | | | |
| Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@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: Higinio Gonzalez and Jennatinkle | | | | | | | | | | | | | | | | | |
| 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: Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4 | | | | | |
| Jennatinkle | | 2/27/25 | | | | Michelle Gonzales | | 2/27/25 | | 1045 | | | | | | | |
| Michelle Gonzales | | 2/27/25 | | 1530 | | John M. | | 2/27/25 | | 1645 | | | | | | | |
| John M. | | 2/27/25 | | 2245 | | Thuyhan K. Heo | | 2/28/25 | | 0430 | | | | | | | |
| 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. | | | | | | | | | | | | | | | | | |



Chain of Custody

Page 2 of 4

| Client Information | | | | Invoice Information | | Lab Use Only | | TAT | | | | State | | | | | |
|---|--------------|--------|-------------------|--------------------------------------|--------------|--------------|-----------------|--|--------------|--|----------------|-------------|----------------|---------------|------|-----|------|
| Client: Matador | | | | Company: Ensolum LLC | | Lab WO# | | 1D 2D 3D Std | | | | NM CO UT TX | | | | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | E502283 | | Job Number | | | | 23003-0007 | | | | | |
| Project Manager: Ashley Giovengo | | | | City, State, Zip: Carlsbad NM, 88220 | | | | | | | | X | | | | | |
| 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 |
| | | | | | | | | | | | | | | | | | |
| 0948 | 2/26/25 | Soil | 1 | FSIS 1 | | | | | | | | | | | | | |
| 0922 | | | | 1A - 1' | | | | | | | | | | | | | |
| 0922 | | | | 20 - 1' | | 11 | | | | | | | | | | | |
| 0923 | | | | 21 - 1' | | 12 | | | | | | | | | | | |
| 0947 | | | | 24 - 1' | | | | | | | | | | | | | |
| 0917 | | | | 25 - 1' | | 13 | | | | | | | | | | | |
| 0944 | | | | 26 - 1' | | 14 | | | | | | | | | | | |
| 0943 | | | | 27 - 1' | | | | | | | | | | | | | |
| 0941 | | | | 30 - 1' | | | | | | | | | | | | | |
| 0946 HCF | | | | 32 - 1' HCF | | 15 | | | | | | | | | | | |
| Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com, JHinnine@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: Higinio Gonzalez and Sematinkale | | | | | | | | | | | | | | | | | |
| 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: 2/28/2025 10:23:17AM

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: | 02/28/25 04:30 | Work Order ID: | E502283 |
| Phone: | (972) 371-5200 | Date Logged In: | 02/27/25 16:21 | Logged In By: | Noe Soto |
| Email: | agiovento@ensolum.com | Due Date: | 03/06/25 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/Resolution

Project Ray State Slot 4 has been separated into 2 WOs due to high sample volume, WOs are E502283-E502284.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client 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: Ray State Slot 4

Work Order: E502284

Job Number: 23003-0002

Received: 2/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/6/25

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: 3/6/25

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



Project Name: Ray State Slot 4
Workorder: E502284
Date Received: 2/28/2025 4:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/28/2025 4:30:00AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | | |
|------------------------------|------------------|------------------|----------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 03/06/25 10:12 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| FS36-1.5' | E502284-01A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS39-1' | E502284-02A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS40-1' | E502284-03A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS41-1' | E502284-04A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS42-1' | E502284-05A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS44-1.5' | E502284-06A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS45-1.5' | E502284-07A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS46-1.5' | E502284-08A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS47-1' | E502284-09A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS48-1' | E502284-10A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS49-1' | E502284-11A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS50-1' | E502284-12A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS52-1' | E502284-13A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS53-1' | E502284-14A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS16-1' | E502284-15A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS56-1' | E502284-16A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |
| FS22-1' | E502284-17A | Soil | 02/26/25 | 02/28/25 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS36-1.5'

E502284-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2509122 |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 105 % | 70-130 | 02/28/25 | 03/03/25 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 102 % | 70-130 | 02/28/25 | 03/03/25 | |
| <i>Surrogate: Toluene-d8</i> | | 107 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2509122 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 105 % | 70-130 | 02/28/25 | 03/03/25 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 102 % | 70-130 | 02/28/25 | 03/03/25 | |
| <i>Surrogate: Toluene-d8</i> | | 107 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KH | | Batch: 2509115 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| <i>Surrogate: n-Nonane</i> | | 102 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: JM | | Batch: 2509125 |
| Chloride | 1450 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS39-1'

E502284-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 105 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.0 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 105 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.0 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 106 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 1330 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS40-1'

E502284-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 105 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.4 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 105 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.4 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 99.5 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 2090 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS41-1'

E502284-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 104 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 104 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 103 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 101 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 1910 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS42-1'

E502284-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 101 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 1930 | 40.0 | 2 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS44-1.5'

E502284-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 106 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.1 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 106 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.1 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 102 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 2800 | 40.0 | 2 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS45-1.5'

E502284-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 106 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 106 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | 27.7 | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 94.4 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 1570 | 40.0 | 2 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS46-1.5'

E502284-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 104 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 104 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 103 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 1290 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS47-1'

E502284-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 102 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 999 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS48-1'

E502284-10

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 106 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 100 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 106 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 100 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 98.9 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 1070 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS49-1'

E502284-11

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 99.1 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 763 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS50-1'

E502284-12

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 104 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 104 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 102 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 98.4 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 1350 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS52-1'

E502284-13

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.7 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.7 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 97.9 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 504 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS53-1'

E502284-14

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 104 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.5 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 104 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.5 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 101 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 1200 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS16-1'

E502284-15

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 101 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | 35.9 | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 102 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 2170 | 40.0 | 2 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS56-1'

E502284-16

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 106 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 104 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 106 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 104 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 99.3 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 1380 | 20.0 | 1 | 02/28/25 | 02/28/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/6/2025 10:12:01AM

FS22-1'

E502284-17

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|-------------|----------|----------------|-------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Benzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Toluene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| o-Xylene | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 02/28/25 | 03/03/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 104 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.9 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: IY | | Batch: 2509122 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 02/28/25 | 03/03/25 | |
| Surrogate: Bromofluorobenzene | | 104 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.9 % | 70-130 | 02/28/25 | 03/03/25 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 02/28/25 | 03/03/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2509115 | |
| Diesel Range Organics (C10-C28) | 66.7 | 25.0 | 1 | 02/28/25 | 03/01/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 02/28/25 | 03/01/25 | |
| Surrogate: n-Nonane | | 102 % | 61-141 | 02/28/25 | 03/01/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2509125 | |
| Chloride | 2760 | 40.0 | 2 | 02/28/25 | 02/28/25 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/6/2025 10:12:01AM |

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2509122-BLK1) Prepared: 02/28/25 Analyzed: 03/03/25

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| 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 | 0.521 | | 0.500 | | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.497 | | 0.500 | | 99.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.541 | | 0.500 | | 108 | 70-130 | | | |

LCS (2509122-BS1) Prepared: 02/28/25 Analyzed: 03/03/25

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene | 2.39 | 0.0250 | 2.50 | | 95.8 | 70-130 | | | |
| Ethylbenzene | 2.57 | 0.0250 | 2.50 | | 103 | 70-130 | | | |
| Toluene | 2.70 | 0.0250 | 2.50 | | 108 | 70-130 | | | |
| o-Xylene | 2.57 | 0.0250 | 2.50 | | 103 | 70-130 | | | |
| p,m-Xylene | 5.41 | 0.0500 | 5.00 | | 108 | 70-130 | | | |
| Total Xylenes | 7.98 | 0.0250 | 7.50 | | 106 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.520 | | 0.500 | | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.515 | | 0.500 | | 103 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.532 | | 0.500 | | 106 | 70-130 | | | |

Matrix Spike (2509122-MS1) Source: E502284-08 Prepared: 02/28/25 Analyzed: 03/03/25

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|--|--|--|
| Benzene | 2.25 | 0.0250 | 2.50 | ND | 89.8 | 48-131 | | | |
| Ethylbenzene | 2.38 | 0.0250 | 2.50 | ND | 95.2 | 45-135 | | | |
| Toluene | 2.48 | 0.0250 | 2.50 | ND | 99.3 | 48-130 | | | |
| o-Xylene | 2.52 | 0.0250 | 2.50 | ND | 101 | 43-135 | | | |
| p,m-Xylene | 5.20 | 0.0500 | 5.00 | ND | 104 | 43-135 | | | |
| Total Xylenes | 7.72 | 0.0250 | 7.50 | ND | 103 | 43-135 | | | |
| Surrogate: Bromofluorobenzene | 0.526 | | 0.500 | | 105 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.499 | | 0.500 | | 99.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.531 | | 0.500 | | 106 | 70-130 | | | |

Matrix Spike Dup (2509122-MSD1) Source: E502284-08 Prepared: 02/28/25 Analyzed: 03/03/25

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|-------|----|--|
| Benzene | 2.27 | 0.0250 | 2.50 | ND | 90.7 | 48-131 | 0.975 | 23 | |
| Ethylbenzene | 2.45 | 0.0250 | 2.50 | ND | 97.9 | 45-135 | 2.76 | 27 | |
| Toluene | 2.55 | 0.0250 | 2.50 | ND | 102 | 48-130 | 2.80 | 24 | |
| o-Xylene | 2.64 | 0.0250 | 2.50 | ND | 106 | 43-135 | 4.79 | 27 | |
| p,m-Xylene | 5.50 | 0.0500 | 5.00 | ND | 110 | 43-135 | 5.56 | 27 | |
| Total Xylenes | 8.14 | 0.0250 | 7.50 | ND | 108 | 43-135 | 5.31 | 27 | |
| Surrogate: Bromofluorobenzene | 0.530 | | 0.500 | | 106 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.505 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.535 | | 0.500 | | 107 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/6/2025 10:12:01AM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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

Blank (2509122-BLK1)

Prepared: 02/28/25 Analyzed: 03/03/25

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.521 | | 0.500 | | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.497 | | 0.500 | | 99.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.541 | | 0.500 | | 108 | 70-130 | | | |

LCS (2509122-BS2)

Prepared: 02/28/25 Analyzed: 03/03/25

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 53.4 | 20.0 | 50.0 | | 107 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.530 | | 0.500 | | 106 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.510 | | 0.500 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.550 | | 0.500 | | 110 | 70-130 | | | |

Matrix Spike (2509122-MS2)

Source: E502284-08

Prepared: 02/28/25 Analyzed: 03/03/25

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 60.3 | 20.0 | 50.0 | ND | 121 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.537 | | 0.500 | | 107 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.510 | | 0.500 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.550 | | 0.500 | | 110 | 70-130 | | | |

Matrix Spike Dup (2509122-MSD2)

Source: E502284-08

Prepared: 02/28/25 Analyzed: 03/03/25

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 53.8 | 20.0 | 50.0 | ND | 108 | 70-130 | 11.4 | 20 | |
| Surrogate: Bromofluorobenzene | 0.530 | | 0.500 | | 106 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.491 | | 0.500 | | 98.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.553 | | 0.500 | | 111 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/6/2025 10:12:01AM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

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

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2509115-BLK1) | | | | | Prepared: 02/28/25 Analyzed: 02/28/25 | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 49.3 | | 50.0 | | 98.6 | 61-141 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2509115-BS1) | | | | | Prepared: 02/28/25 Analyzed: 02/28/25 | | | | |
| Diesel Range Organics (C10-C28) | 233 | 25.0 | 250 | | 93.2 | 66-144 | | | |
| Surrogate: n-Nonane | 49.4 | | 50.0 | | 98.9 | 61-141 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2509115-MS1) | | | | | Source: E502284-05 | | Prepared: 02/28/25 Analyzed: 02/28/25 | | |
| Diesel Range Organics (C10-C28) | 256 | 25.0 | 250 | ND | 102 | 56-156 | | | |
| Surrogate: n-Nonane | 53.0 | | 50.0 | | 106 | 61-141 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2509115-MSD1) | | | | | Source: E502284-05 | | Prepared: 02/28/25 Analyzed: 02/28/25 | | |
| Diesel Range Organics (C10-C28) | 247 | 25.0 | 250 | ND | 98.9 | 56-156 | 3.41 | 20 | |
| Surrogate: n-Nonane | 53.2 | | 50.0 | | 106 | 61-141 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/6/2025 10:12:01AM |

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|---------------------------------|------|------|-----|------|---------------------------------------|--------|---------------------------------------|----|----|
| Blank (2509125-BLK1) | | | | | Prepared: 02/28/25 Analyzed: 02/28/25 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2509125-BS1) | | | | | Prepared: 02/28/25 Analyzed: 02/28/25 | | | | |
| Chloride | 255 | 20.0 | 250 | | 102 | 90-110 | | | |
| Matrix Spike (2509125-MS1) | | | | | Source: E502284-04 | | Prepared: 02/28/25 Analyzed: 02/28/25 | | |
| Chloride | 2040 | 20.0 | 250 | 1910 | 54.1 | 80-120 | | | M4 |
| Matrix Spike Dup (2509125-MSD1) | | | | | Source: E502284-04 | | Prepared: 02/28/25 Analyzed: 02/28/25 | | |
| Chloride | 2050 | 20.0 | 250 | 1910 | 56.1 | 80-120 | 0.251 | 20 | M4 |

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

Definitions and Notes

| | | | |
|------------------------------|------------------|------------------|----------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 03/06/25 10:12 |

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Chain of Custody

Page 3 of 4

| Client Information | | | | Invoice Information | | Lab Use Only | | TAT | | | | State | | | | | |
|---|--------------|---------|-------------------|--------------------------------------|--------------|---------------------|-----------------|---|--------------|-------------|----------------|-------------|----------------|---------------|------|-----|------|
| Client: Matador | | | | Company: Ensolum LLC | | Lab WO# | | 1D 2D 3D Std | | | | NM CO UT TX | | | | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | E502284 | | Job Number | | | | 23003-0007 | | | | | |
| Project Manager: Ashley Giovengo | | | | City, State, Zip: Carlsbad NM, 88220 | | | | | | | | X | | | | | |
| 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 |
| 0934 | 2/26/25 | Soil | 1 | FS36-1.5' | | 1 | | | | | | X | | | | | |
| 0932 | | | | 39-1' | | 2 | | | | | | X | | | | | |
| 0927 | | | | 40-1' | | 3 | | | | | | X | | | | | |
| 0924 | | | | 41-1' | | 4 | | | | | | X | | | | | |
| 0924 | | | | 42-1' | | 5 | | | | | | X | | | | | |
| 0936 | | | | 44-1.5' | | 6 | | | | | | X | | | | | |
| 0936 | | | | 45-1.5' | | 7 | | | | | | X | | | | | |
| 0928 | | | | 46-1.5' | | 8 | | | | | | X | | | | | |
| 0930 | | | | 47-1' | | 9 | | | | | | X | | | | | |
| 0904 | | | | 48-1' | | 10 | | | | | | X | | | | | |
| Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@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: Higinio Gonzalez and Denna Hinkle | | | | | | | | | | | | | | | | | |
| 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 5 °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 | | | | | | | | | |
| Denna Hinkle | | 2/27/25 | | Michelle Gonzales | | 2-27-25 | 1045 | | | | | | | | | | |
| Michelle Gonzales | | 2-27-25 | 1500 | J.L. H. | | 2-27-25 | 1645 | | | | | | | | | | |
| J.L. H. | | 2-27-25 | 2245 | Kathryn R. Helle | | 2-28-25 | 0430 | | | | | | | | | | |
| 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. | | | | | | | | | | | | | | | | | |



Chain of Custody

Page 4 of 4

| Client Information | | | | Invoice Information | | Lab Use Only | | TAT | | | | State | | | | | |
|---|--------------|--------|-------------------|--------------------------------------|--------------|--------------|-----------------|--|--------------|--|----------------|-------------|----------------|---------------|------|-----|------|
| Client: Matador | | | | Company: Ensolum LLC | | Lab WO# | | 1D 2D 3D Std | | | | NM CO UT TX | | | | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | E 502284 | | Job Number | | | | 23003-0002 | | | | | |
| Project Manager: Ashley Gioveno | | | | City, State, Zip: Carlsbad NM, 88220 | | | | | | | | X | | | | | |
| Address: 3122 National Parks Hwy | | | | Phone: 575-988-0055 | | | | | | | | | | | | | |
| City, State, Zip: Carlsbad NM, 88220 | | | | Email: agioveno@ensolum.com | | | | | | | | | | | | | |
| Phone: 575-988-0055 | | | | Miscellaneous: | | | | | | | | | | | | | |
| Email: agioveno@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 |
| 0433 | 2/16/25 | Soil | 1 | FS49-1' | | 11 | | | | | | + | | | | | |
| 0424 | | | | 50-1' | | 12 | | | | | | + | | | | | |
| 1030 | | | | 52-1' | | 13 | | | | | | + | | | | | |
| 0426 | | | | 53-1' | | 14 | | | | | | + | | | | | |
| 0415 | | | | 16-1' | | 15 | | | | | | + | | | | | |
| 0426 | | | | 56-1' | | 16 | | | | | | X | | | | | |
| 0446 | | | | FS22-1' | | 17 | | | | | | X | | | | | |
| Additional Instructions: Please CC: agioveno@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@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: Higinio Gonzalez and Jennat Gable | | | | | | | | | | | | | | | | | |
| 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: 2/28/2025 10:25:07AM

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: | 02/28/25 04:30 | Work Order ID: | E502284 |
| Phone: | (972) 371-5200 | Date Logged In: | 02/27/25 16:32 | Logged In By: | Noe Soto |
| Email: | agiovento@ensolum.com | Due Date: | 03/06/25 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/Resolution

Project Ray State Slot 4 has been separated into 2 WOs due to high sample volume, WOs are E502283-E502284.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client 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: Ray State Slot 4

Work Order: E502293

Job Number: 23003-0002

Received: 3/3/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/7/25

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: 3/7/25

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



Project Name: Ray State Slot 4
Workorder: E502293
Date Received: 3/3/2025 7:00:46AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/3/2025 7:00:46AM, under the Project Name: Ray State Slot 4.

The analytical test results summarized in this report with the Project Name: Ray State Slot 4 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | |
|---|--|-----------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Ray State Slot 4 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 03/07/25 16:54 |
|---|--|-----------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| FS15-1.5' | E502293-01A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS17-1.5' | E502293-02A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS18-1.5' | E502293-03A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS19-1.5' | E502293-04A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS24-2' | E502293-05A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS27-1.5' | E502293-06A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS28-2' | E502293-07A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS29-2' | E502293-08A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS30-2' | E502293-09A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS31-1.5' | E502293-10A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS32-4' | E502293-11A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS33-4' | E502293-12A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS34-4' | E502293-13A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS35-1.5' | E502293-14A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS43-2' | E502293-15A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS51-2' | E502293-16A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS54-2' | E502293-17A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS55-2' | E502293-18A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| SW01-0'-1.5' | E502293-19A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| SW02-0'-1.5' | E502293-20A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| SW03-0'-4' | E502293-21A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| SW04-0'-4' | E502293-22A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| SW05-0'-1.5' | E502293-23A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |
| FS23-1.5' | E502293-24A | Soil | 02/27/25 | 03/03/25 | Glass Jar, 2 oz. |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS15-1.5'

E502293-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 100 % | 70-130 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 93.4 % | 70-130 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: Toluene-d8</i> | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 100 % | 70-130 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 93.4 % | 70-130 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: Toluene-d8</i> | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/03/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/03/25 | |
| <i>Surrogate: n-Nonane</i> | | 120 % | 61-141 | 03/03/25 | 03/03/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 2590 | 40.0 | 2 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS17-1.5'

E502293-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.3 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.3 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/03/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/03/25 | |
| Surrogate: n-Nonane | | 118 % | 61-141 | 03/03/25 | 03/03/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 955 | 20.0 | 1 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS18-1.5'

E502293-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.1 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.1 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/03/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/03/25 | |
| Surrogate: n-Nonane | | 115 % | 61-141 | 03/03/25 | 03/03/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 1370 | 20.0 | 1 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS19-1.5'

E502293-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.7 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 104 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.7 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 104 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/03/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/03/25 | |
| Surrogate: n-Nonane | | 115 % | 61-141 | 03/03/25 | 03/03/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 605 | 20.0 | 1 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS24-2'

E502293-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.0 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.0 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/03/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/03/25 | |
| Surrogate: n-Nonane | | 113 % | 61-141 | 03/03/25 | 03/03/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 2480 | 40.0 | 2 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS27-1.5'

E502293-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 95.6 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 95.6 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | 36.1 | 25.0 | 1 | 03/03/25 | 03/03/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/03/25 | |
| Surrogate: n-Nonane | | 110 % | 61-141 | 03/03/25 | 03/03/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 2610 | 40.0 | 2 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS28-2'

E502293-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94.6 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 104 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 103 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94.6 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 104 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/03/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/03/25 | |
| Surrogate: n-Nonane | | 114 % | 61-141 | 03/03/25 | 03/03/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 375 | 20.0 | 1 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS29-2'

E502293-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.5 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.5 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/03/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/03/25 | |
| Surrogate: n-Nonane | | 110 % | 61-141 | 03/03/25 | 03/03/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 3760 | 40.0 | 2 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS30-2'

E502293-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94.1 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 94.1 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | 33.2 | 25.0 | 1 | 03/03/25 | 03/03/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/03/25 | |
| Surrogate: n-Nonane | | 112 % | 61-141 | 03/03/25 | 03/03/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 2510 | 40.0 | 2 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS31-1.5'

E502293-10

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | 99.1 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | 96.4 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | 105 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | 99.1 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | 96.4 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | 105 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/03/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/03/25 | |
| Surrogate: n-Nonane | 115 % | 61-141 | | 03/03/25 | 03/03/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 2340 | 40.0 | 2 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS32-4'

E502293-11

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.1 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 104 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.1 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 104 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: n-Nonane | | 110 % | 61-141 | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 2240 | 40.0 | 2 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS33-4'

E502293-12

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.0 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.0 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: n-Nonane | | 110 % | 61-141 | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 2190 | 40.0 | 2 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS34-4'

E502293-13

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.0 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 106 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.0 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 106 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: n-Nonane | | 120 % | 61-141 | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 2230 | 20.0 | 1 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS35-1.5'

E502293-14

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.9 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.9 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: n-Nonane | | 105 % | 61-141 | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 1280 | 20.0 | 1 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS43-2'

E502293-15

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.8 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.8 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | 47.7 | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: n-Nonane | | 103 % | 61-141 | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 3280 | 40.0 | 2 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS51-2'

E502293-16

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.4 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.4 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: n-Nonane | | 113 % | 61-141 | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 1110 | 20.0 | 1 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS54-2'

E502293-17

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.1 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 100 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.1 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 105 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: n-Nonane | | 119 % | 61-141 | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 852 | 20.0 | 1 | 03/03/25 | 03/04/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS55-2'

E502293-18

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.3 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 103 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 101 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.3 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 103 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: n-Nonane | | 111 % | 61-141 | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 1270 | 20.0 | 1 | 03/03/25 | 03/04/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

SW01-0'-1.5'

E502293-19

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.4 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.4 % | 70-130 | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | 28.9 | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: n-Nonane | | 107 % | 61-141 | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 1940 | 20.0 | 1 | 03/03/25 | 03/04/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

SW02-0'-1.5'

E502293-20

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | 99.1 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | 96.1 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510022 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: Bromofluorobenzene | 99.1 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Surrogate: 1,2-Dichloroethane-d4 | 96.1 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: AF | | Batch: 2510015 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| Surrogate: n-Nonane | 111 % | 61-141 | | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: DT | | Batch: 2510020 |
| Chloride | 1580 | 20.0 | 1 | 03/03/25 | 03/04/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

SW03-0'-4'

E502293-21

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510007 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 91.8 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510007 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 91.5 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KH | | Batch: 2510016 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 109 % | 61-141 | | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: JM | | Batch: 2510021 |
| Chloride | 817 | 20.0 | 1 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

SW04-0'-4'

E502293-22

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | Analyst: RAS | | Batch: 2510007 | |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | 93.1 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | Analyst: RAS | | Batch: 2510007 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | 92.2 % | 70-130 | | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | Analyst: KH | | Batch: 2510016 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | 106 % | 61-141 | | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | Analyst: JM | | Batch: 2510021 | |
| Chloride | 907 | 20.0 | 1 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

SW05-0'-1.5'

E502293-23

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | Analyst: RAS | | Batch: 2510007 | |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | 93.8 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: RAS | | Batch: 2510007 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | 92.2 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KH | | Batch: 2510016 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: n-Nonane</i> | | 102 % | 61-141 | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: JM | | Batch: 2510021 | |
| Chloride | 1200 | 20.0 | 1 | 03/03/25 | 03/03/25 | |



Sample Data

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

Project Name: Ray State Slot 4
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/7/2025 4:54:29PM

FS23-1.5'

E502293-24

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|--------------|----------|----------------|
| Volatile Organics by EPA 8021B | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510007 |
| Benzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| Toluene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| o-Xylene | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/03/25 | 03/04/25 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> | | | | | | |
| | | 91.7 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: RAS | | Batch: 2510007 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> | | | | | | |
| | | 92.7 % | 70-130 | 03/03/25 | 03/04/25 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KH | | Batch: 2510016 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/03/25 | 03/04/25 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/03/25 | 03/04/25 | |
| <i>Surrogate: n-Nonane</i> | | | | | | |
| | | 111 % | 61-141 | 03/03/25 | 03/04/25 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: JM | | Batch: 2510021 |
| Chloride | 2320 | 20.0 | 1 | 03/03/25 | 03/03/25 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/7/2025 4:54:29PM |

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

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

Blank (2510022-BLK1) Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| 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 | 0.507 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.467 | | 0.500 | | 93.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.526 | | 0.500 | | 105 | 70-130 | | | |

LCS (2510022-BS1) Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene | 2.58 | 0.0250 | 2.50 | | 103 | 70-130 | | | |
| Ethylbenzene | 2.63 | 0.0250 | 2.50 | | 105 | 70-130 | | | |
| Toluene | 2.70 | 0.0250 | 2.50 | | 108 | 70-130 | | | |
| o-Xylene | 2.85 | 0.0250 | 2.50 | | 114 | 70-130 | | | |
| p,m-Xylene | 5.63 | 0.0500 | 5.00 | | 113 | 70-130 | | | |
| Total Xylenes | 8.47 | 0.0250 | 7.50 | | 113 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.508 | | 0.500 | | 102 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.490 | | 0.500 | | 98.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.512 | | 0.500 | | 102 | 70-130 | | | |

Matrix Spike (2510022-MS1) Source: E502293-04 Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|--|--|--|
| Benzene | 2.66 | 0.0250 | 2.50 | ND | 106 | 48-131 | | | |
| Ethylbenzene | 2.75 | 0.0250 | 2.50 | ND | 110 | 45-135 | | | |
| Toluene | 2.80 | 0.0250 | 2.50 | ND | 112 | 48-130 | | | |
| o-Xylene | 2.97 | 0.0250 | 2.50 | ND | 119 | 43-135 | | | |
| p,m-Xylene | 5.92 | 0.0500 | 5.00 | ND | 118 | 43-135 | | | |
| Total Xylenes | 8.89 | 0.0250 | 7.50 | ND | 118 | 43-135 | | | |
| Surrogate: Bromofluorobenzene | 0.515 | | 0.500 | | 103 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.496 | | 0.500 | | 99.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.520 | | 0.500 | | 104 | 70-130 | | | |

Matrix Spike Dup (2510022-MSD1) Source: E502293-04 Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|-------|----|--|
| Benzene | 2.63 | 0.0250 | 2.50 | ND | 105 | 48-131 | 1.12 | 23 | |
| Ethylbenzene | 2.72 | 0.0250 | 2.50 | ND | 109 | 45-135 | 0.968 | 27 | |
| Toluene | 2.79 | 0.0250 | 2.50 | ND | 111 | 48-130 | 0.412 | 24 | |
| o-Xylene | 2.97 | 0.0250 | 2.50 | ND | 119 | 43-135 | 0.253 | 27 | |
| p,m-Xylene | 5.86 | 0.0500 | 5.00 | ND | 117 | 43-135 | 1.02 | 27 | |
| Total Xylenes | 8.83 | 0.0250 | 7.50 | ND | 118 | 43-135 | 0.593 | 27 | |
| Surrogate: Bromofluorobenzene | 0.524 | | 0.500 | | 105 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.477 | | 0.500 | | 95.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.521 | | 0.500 | | 104 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/7/2025 4:54:29PM |

Volatile Organics by EPA 8021B

Analyst: RAS

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

Blank (2510007-BLK1)

Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| 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 | 7.34 | | 8.00 | | 91.7 | 70-130 | | | |

LCS (2510007-BS1)

Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|-------------------------------------|------|--------|------|--|------|--------|--|--|--|
| Benzene | 4.83 | 0.0250 | 5.00 | | 96.6 | 70-130 | | | |
| Ethylbenzene | 4.80 | 0.0250 | 5.00 | | 96.1 | 70-130 | | | |
| Toluene | 4.86 | 0.0250 | 5.00 | | 97.2 | 70-130 | | | |
| o-Xylene | 4.79 | 0.0250 | 5.00 | | 95.8 | 70-130 | | | |
| p,m-Xylene | 9.77 | 0.0500 | 10.0 | | 97.7 | 70-130 | | | |
| Total Xylenes | 14.6 | 0.0250 | 15.0 | | 97.0 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.30 | | 8.00 | | 91.3 | 70-130 | | | |

Matrix Spike (2510007-MS1)

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|--|--|--|
| Benzene | 5.04 | 0.0250 | 5.00 | ND | 101 | 54-133 | | | |
| Ethylbenzene | 4.99 | 0.0250 | 5.00 | ND | 99.7 | 61-133 | | | |
| Toluene | 5.06 | 0.0250 | 5.00 | ND | 101 | 61-130 | | | |
| o-Xylene | 4.97 | 0.0250 | 5.00 | ND | 99.3 | 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 | 7.39 | | 8.00 | | 92.3 | 70-130 | | | |

Matrix Spike Dup (2510007-MSD1)

Source: E502293-24

Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|-------------------------------------|------|--------|------|----|------|--------|------|----|--|
| Benzene | 5.32 | 0.0250 | 5.00 | ND | 106 | 54-133 | 5.33 | 20 | |
| Ethylbenzene | 5.28 | 0.0250 | 5.00 | ND | 106 | 61-133 | 5.73 | 20 | |
| Toluene | 5.34 | 0.0250 | 5.00 | ND | 107 | 61-130 | 5.54 | 20 | |
| o-Xylene | 5.27 | 0.0250 | 5.00 | ND | 105 | 63-131 | 5.89 | 20 | |
| p,m-Xylene | 10.7 | 0.0500 | 10.0 | ND | 107 | 63-131 | 5.73 | 20 | |
| Total Xylenes | 16.0 | 0.0250 | 15.0 | ND | 107 | 63-131 | 5.78 | 20 | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.37 | | 8.00 | | 92.1 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/7/2025 4:54:29PM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

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

Blank (2510007-BLK1) Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.37 | | 8.00 | | 92.2 | 70-130 | | | |

LCS (2510007-BS2) Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|---|------|------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 43.4 | 20.0 | 50.0 | | 86.8 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.49 | | 8.00 | | 93.6 | 70-130 | | | |

Matrix Spike (2510007-MS2) Source: E502293-24 Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|---|------|------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 41.1 | 20.0 | 50.0 | ND | 82.2 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.54 | | 8.00 | | 94.2 | 70-130 | | | |

Matrix Spike Dup (2510007-MSD2) Source: E502293-24 Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|---|------|------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 45.0 | 20.0 | 50.0 | ND | 89.9 | 70-130 | 9.00 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.56 | | 8.00 | | 94.4 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/7/2025 4:54:29PM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

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

Blank (2510022-BLK1)

Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.507 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.467 | | 0.500 | | 93.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.526 | | 0.500 | | 105 | 70-130 | | | |

LCS (2510022-BS2)

Prepared: 03/03/25 Analyzed: 03/07/25

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 45.1 | 20.0 | 50.0 | | 90.2 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.522 | | 0.500 | | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.480 | | 0.500 | | 95.9 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.520 | | 0.500 | | 104 | 70-130 | | | |

Matrix Spike (2510022-MS2)

Source: E502293-04

Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 64.5 | 20.0 | 50.0 | ND | 129 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.527 | | 0.500 | | 105 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.477 | | 0.500 | | 95.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.533 | | 0.500 | | 107 | 70-130 | | | |

Matrix Spike Dup (2510022-MSD2)

Source: E502293-04

Prepared: 03/03/25 Analyzed: 03/04/25

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|-------|----|--|
| Gasoline Range Organics (C6-C10) | 64.2 | 20.0 | 50.0 | ND | 128 | 70-130 | 0.492 | 20 | |
| Surrogate: Bromofluorobenzene | 0.513 | | 0.500 | | 103 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.468 | | 0.500 | | 93.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.538 | | 0.500 | | 108 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/7/2025 4:54:29PM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2510015-BLK1) | | | | | Prepared: 03/03/25 Analyzed: 03/03/25 | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 52.4 | | 50.0 | | 105 | 61-141 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2510015-BS1) | | | | | Prepared: 03/03/25 Analyzed: 03/03/25 | | | | |
| Diesel Range Organics (C10-C28) | 263 | 25.0 | 250 | | 105 | 66-144 | | | |
| Surrogate: n-Nonane | 53.4 | | 50.0 | | 107 | 61-141 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2510015-MS1) | | | | | Source: E502293-14 | | Prepared: 03/03/25 Analyzed: 03/03/25 | | |
| Diesel Range Organics (C10-C28) | 310 | 25.0 | 250 | ND | 124 | 56-156 | | | |
| Surrogate: n-Nonane | 59.3 | | 50.0 | | 119 | 61-141 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2510015-MSD1) | | | | | Source: E502293-14 | | Prepared: 03/03/25 Analyzed: 03/03/25 | | |
| Diesel Range Organics (C10-C28) | 287 | 25.0 | 250 | ND | 115 | 56-156 | 7.93 | 20 | |
| Surrogate: n-Nonane | 55.1 | | 50.0 | | 110 | 61-141 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/7/2025 4:54:29PM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

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

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2510016-BLK1) | | | | | Prepared: 03/03/25 Analyzed: 03/04/25 | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 50.8 | | 50.0 | | 102 | 61-141 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2510016-BS1) | | | | | Prepared: 03/03/25 Analyzed: 03/04/25 | | | | |
| Diesel Range Organics (C10-C28) | 231 | 25.0 | 250 | | 92.5 | 66-144 | | | |
| Surrogate: n-Nonane | 50.5 | | 50.0 | | 101 | 61-141 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2510016-MS1) | | | | | Source: E502293-21 | | Prepared: 03/03/25 Analyzed: 03/04/25 | | |
| Diesel Range Organics (C10-C28) | 241 | 25.0 | 250 | ND | 96.4 | 56-156 | | | |
| Surrogate: n-Nonane | 51.4 | | 50.0 | | 103 | 61-141 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2510016-MSD1) | | | | | Source: E502293-21 | | Prepared: 03/03/25 Analyzed: 03/04/25 | | |
| Diesel Range Organics (C10-C28) | 241 | 25.0 | 250 | ND | 96.3 | 56-156 | 0.131 | 20 | |
| Surrogate: n-Nonane | 52.9 | | 50.0 | | 106 | 61-141 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/7/2025 4:54:29PM |

Anions by EPA 300.0/9056A

Analyst: DT

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

| | | | | | | | | | |
|---------------------------------|------|------|-----|------|---------------------------------------|--------|---------------------------------------|----|----|
| Blank (2510020-BLK1) | | | | | Prepared: 03/03/25 Analyzed: 03/03/25 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2510020-BS1) | | | | | Prepared: 03/03/25 Analyzed: 03/03/25 | | | | |
| Chloride | 257 | 20.0 | 250 | | 103 | 90-110 | | | |
| Matrix Spike (2510020-MS1) | | | | | Source: E502293-03 | | Prepared: 03/03/25 Analyzed: 03/03/25 | | |
| Chloride | 1630 | 20.0 | 250 | 1370 | 101 | 80-120 | | | |
| Matrix Spike Dup (2510020-MSD1) | | | | | Source: E502293-03 | | Prepared: 03/03/25 Analyzed: 03/03/25 | | |
| Chloride | 1700 | 20.0 | 250 | 1370 | 131 | 80-120 | 4.40 | 20 | M4 |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------|--------------------|
| Matador Resources, LLC. | Project Name: | Ray State Slot 4 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 3/7/2025 4:54:29PM |

Anions by EPA 300.0/9056A

Analyst: JM

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

| | | | | | | | | | |
|---------------------------------|-----|------|-----|------|---------------------------------------|--------|---------------------------------------|----|--|
| Blank (2510021-BLK1) | | | | | Prepared: 03/03/25 Analyzed: 03/03/25 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2510021-BS1) | | | | | Prepared: 03/03/25 Analyzed: 03/03/25 | | | | |
| Chloride | 255 | 20.0 | 250 | | 102 | 90-110 | | | |
| Matrix Spike (2510021-MS1) | | | | | Source: E502292-02 | | Prepared: 03/03/25 Analyzed: 03/03/25 | | |
| Chloride | 299 | 20.0 | 250 | 30.8 | 107 | 80-120 | | | |
| Matrix Spike Dup (2510021-MSD1) | | | | | Source: E502292-02 | | Prepared: 03/03/25 Analyzed: 03/03/25 | | |
| Chloride | 294 | 20.0 | 250 | 30.8 | 105 | 80-120 | 1.48 | 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: | Ray State Slot 4 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 03/07/25 16:54 |

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Chain of Custody

Page 1 of 3

| Client Information | | | | | Invoice Information | | | Lab Use Only | | | TAT | | | | State | | | | |
|---|--------------|---------|-------------------|--------------------------|--------------------------------------|------------|-----------------|--|--------------|---------------------|----------------|------------|----------------|---------------|-------------|-------------|------|--|--|
| Client: Matador | | | | | Company: Ensolum LLC | | | Lab WO# | | | 1D 2D 3D Std | | | | NM CO UT TX | | | | |
| Project: Ray State Slot 4 | | | | | Address: 3122 National Parks Hwy | | | E50229323003-002 | | | | | | | 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 | SGDOC - NM | TCEQ 1005 - TX | RCRA 8 Metals | SDWA | CWA | RCRA | | |
| 0436 | 2/27/25 | Soil | 1 | FSIS-1.5' | | 1 | | | | | | + | | | | | | | |
| 0451 | | | | 17 - | | 2 | | | | | | + | | | | | | | |
| 0453 | | | | 18 - | | 3 | | | | | | + | | | | | | | |
| 1125 | | | | 19 - | | 4 | | | | | | + | | | | | | | |
| 1123 | | | | 24 -2' | | 5 | | | | | | + | | | | | | | |
| 0431 | | | | 27 -1.5' | | 6 | | | | | | + | | | | | | | |
| 0420 | | | | 28 -2' | | 7 | | | | | | + | | | | | | | |
| 0417 | | | | 29 -2' | | 8 | | | | | | + | | | | | | | |
| 0418 | | | | 30 -2' | | 9 | | | | | | + | | | | | | | |
| 1456 | | | | 31 -1.5' | | 10 | | | | | | + | | | | | | | |
| Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@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: Higinio Gonzalez and Jenna Hinkle | | | | | | | | | | | | | | | | | | | |
| 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: (Y) N T1 _____ T2 _____ T3 _____ AVG Temp °C 4 | | | | | | | | | | | |
| Jenna Hinkle | | 2/28/25 | 0945 | Michelle Gonzales | | 2/28/25 | 0945 | | | | | | | | | | | | |
| Michelle Gonzales | | 2/28/25 | 1600 | J.M. | | 2/28/25 | 1700 | | | | | | | | | | | | |
| J.M. | | 2/28/25 | 2400 | Cuthman | | 3/3/25 | 700 | | | | | | | | | | | | |
| 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

Chain of Custody

Page 2 of 3

| Client Information | | | | Invoice Information | | Lab Use Only | | TAT | | | | State | | | | | | | | | | | |
|---|--------------|--------|-------------------|--------------------------------------|--------------|-----------------|-----------------|---|--------------|--|----------------|---|----------------|---------------|------|-----|------|----|-----|---|--|--|---|
| Client: Matador | | | | Company: Ensolum LLC | | Lab WO# E507293 | | Job Number 230030002 | | | | <table border="1"> <tr> <td>1D</td> <td>2D</td> <td>3D</td> <td>Std</td> </tr> <tr> <td></td> <td></td> <td></td> <td>X</td> </tr> </table> | | | | 1D | 2D | 3D | Std | | | | X |
| 1D | 2D | 3D | Std | | | | | | | | | | | | | | | | | | | | |
| | | | X | | | | | | | | | | | | | | | | | | | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | | | | | | | <table border="1"> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>TX</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> </tr> </table> | | | | NM | CO | UT | TX | X | | | |
| NM | CO | UT | TX | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | |
| 0850 | 2/17/25 | Soil | 1 | FS32-4' | | 11 | | | | | | + | | | | | | | | | | | |
| 0854 | | | | 33-4 | | 12 | | | | | | + | | | | | | | | | | | |
| 0852 | | | | 34-4 | | 13 | | | | | | + | | | | | | | | | | | |
| 1455 | | | | 35-1.5' | | 14 | | | | | | + | | | | | | | | | | | |
| 0908 | | | | 43-2' | | 15 | | | | | | + | | | | | | | | | | | |
| 1047 | | | | 51-2' | | 16 | | | | | | + | | | | | | | | | | | |
| 1049 | | | | 54-2' | | 17 | | | | | | + | | | | | | | | | | | |
| 1132 | | | | 55-2' | | 18 | | | | | | + | | | | | | | | | | | |
| 1323 | | | | SW01-0'-1.5' | | 19 | | | | | | + | | | | | | | | | | | |
| 1321 | | | | SW02-0'-1.5' | | 20 | | | | | | + | | | | | | | | | | | |
| Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@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: Higinio Gonzalez and Jenna Hinkle | | | | | | | | | | | | | | | | | | | | | | | |
| 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

| Client Information | | | | Invoice Information | | | | Lab Use Only | | | | TAT | | | | State | | | | | | | |
|---|--------------|--------|-------------------|--------------------------------------|-------|--------|------------|--------------------------|-----------------|--------------|-------------|--|------------|----------------|---------------|---|-----|------|----|-------------|--|--|--|
| Client: Matador | | | | Company: Ensolum LLC | | | | Lab WO# | | Job Number | | 1D | 2D | 3D | Std | NM | CO | UT | TX | | | | |
| Project: Ray State Slot 4 | | | | Address: 3122 National Parks Hwy | | | | E502293 | | 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 | | | | | |
| 1240 | 2/27/25 | Soil | 1 | SW03-0'-4' | | | 21 | | | | | | + | | | | | | | | | | |
| 1409 | 2/27/25 | Soil | 1 | SW04-0'-4' | | | 22 | | | | | | + | | | | | | | | | | |
| 1219 | 2/27/25 | Soil | 1 | SW05-0'-1.5' | | | 23 | | | | | | + | | | | | | | | | | |
| 1527 | 2/27/25 | Soil | 1 | FS 23 - 1.5' | | | 24 | | | | | | + | | | | | | | | | | |
| Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, igonzalez@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: Higinio Gonzalez and Jenna Hinkle | | | | | | | | | | | | | | | | | | | | | | | |
| 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 / <input type="checkbox"/> 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: 3/3/2025 10:10:44AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

| | | | | | |
|---------|-------------------------|-----------------|----------------------------|----------------|----------|
| Client: | Matador Resources, LLC. | Date Received: | 03/03/25 07:00 | Work Order ID: | E502293 |
| Phone: | (972) 371-5200 | Date Logged In: | 02/28/25 16:18 | Logged In By: | Noe Soto |
| Email: | agiovengo@ensolum.com | Due Date: | 03/07/25 17:00 (4 day TAT) | | |

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX E

NMOCD Correspondence

From: [Rodgers, Scott, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: [Bratcher, Michael, EMNRD](#); jason.touchet@matadorresources.com; arsenio.jones@matadorresources.com; [Cole Burton](#); [Chad Hamilton](#)
Subject: RE: [EXTERNAL] Extension Request - Ray State Slot 4 - Incident Number nAPP2417872718
Date: Tuesday, September 17, 2024 3:27:07 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)

[**EXTERNAL EMAIL**]

Your time extension request is approved. Remediation Due date has been updated to December 20, 2024 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards,
Scott

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oecd>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, September 17, 2024 3:20 PM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Ray State Slot 4 - Incident Number nAPP2417872718

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Tuesday, September 17, 2024 2:20 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Jason Touchet <jason.touchet@matadorresources.com>; Arsenio Jones <arsenio.jones@matadorresources.com>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] Extension Request - Ray State Slot 4 - Incident Number nAPP2417872718

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

All,

Matador Production Company (Matador) is requesting an extension of the current deadline of September 23, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Ray State Slot 4 (Site) (Incident Number nAPP2417872718). The release occurred on June 25, 2024, and approximately 18 barrels (bbls) of produced water were release on-pad; 8 bbls were recovered. Ensolum personnel are currently conducting lateral and vertical delineation sampling in accordance with the strictest Closure Criteria per NMOCD Table I. Matador intends to submit a remediation work plan or closure report, after completing excavation/reclamation of the subject matter release and upon receiving final laboratory analytical results from confirmation sampling activities. Matador respectfully requests an extension until December 20, 2024.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

“Your authenticity is your superpower.” – Unknown

From: [Rodgers, Scott, EMNRD](#)
To: [Chad Hamilton](#)
Cc: [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] FW: Extension Request - Matador - Ray State Slot 4 - nAPP2417872718
Date: Thursday, December 12, 2024 2:28:28 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Your time extension request is approved. Remediation Due date has been updated to March 20, 2025 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards,

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Chad Hamilton <chamilton@ensolum.com>
Sent: Thursday, December 12, 2024 1:47 PM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Subject: [EXTERNAL] FW: Extension Request - Matador - Ray State Slot 4 - nAPP2417872718

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

From: Chad Hamilton

Sent: Thursday, December 12, 2024 10:43 AM

To: Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov>; mike.bratcher@emnrd.nm.gov; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Csnow@matadorresources.com; Arsenio Jones <arsenio.jones@matadorresources.com>; jason.touchet@matadorresources.com

Cc: Ashley Giovengo <agiovengo@ensolum.com>; Cole Burton <cburton@ensolum.com>

Subject: Extension Request - Matador - Ray State Slot 4 - nAPP2417872718

Good Morning,

Matador Production Company (Matador) is requesting an extension of the current deadline of December 20, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Ray State Slot 4 (Site) (Incident Number nAPP2417872718). The release occurred on June 26, 2024, and approximately 16 barrels (bbls) of produced water were release on-pad; 8 bbls were recovered. Ensolum personnel have completed lateral and vertical delineation sampling at the Site. After several visits to the Site and multiple attempts to laterally and vertically delineate in accordance with New Mexico Oil Conservation Division (NMOCD) Table I criteria, an investigation into naturally occurring chloride began. Ensolum personnel completed 5 boreholes in undisturbed areas off-pad to detect for the presence or absence of naturally occurring chloride at the Site. A variance request for background chloride was submitted on September 24, 2024, and was approved by Scott Rodgers on September 27, 2024. Ensolum conducted a meeting on behalf of Matador with New Mexico Oil Conservation Division (NMOCD) on December 11, 2024, to discuss the approved background chloride variance. The Ray State pad was cut from an existing hill where the top 2 feet of topsoil was removed, and the remaining caliche layers were used to build the pad. The pad was built on a grade running southeast that is 8 to 16 feet lower in elevation than the hill. Laboratory analytical results from background sample locations at the Site indicated that the caliche layers contained concentrations of naturally occurring chloride at depths ranging from 4 feet below ground surface (bgs) to 15 feet bgs. Due to the difference in elevation at which the background samples were collected (8 feet above pad surface) and the current elevation of the Ray State Pad (8 feet to 16 feet below the background sample locations), Ensolum is requesting an adjusted background chloride variance based on analytical results from the caliche layers or the chloride containing layers that the pad was constructed from. Matador intends to submit a remediation work plan or closure report, after NMOCD has had a chance to reevaluate the new background chloride variance request and upon completion of excavation/remediation activities at the Site. Matador respectfully requests a 90-day extension until March 20, 2024.

Thanks,



Chad Hamilton

Staff Geologist

940-923-0072

Ensolum, LLC

in f 

From: [Rodgers, Scott, EMNRD](#)
To: [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#); jason.touchet@matadorresources.com; [Arsenio Jones](#); Csnow@matadorresources.com
Cc: [Ashley Giovengo](#); [Dan Moir](#)
Subject: RE: [EXTERNAL] Matador - Ray State Slot 4 - Incident Number nAPP2417872718 - Background Chloride Variance Request
Date: Tuesday, January 28, 2025 3:04:54 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Good Afternoon,

The background chloride variance request is approved. The variance request for 400' floor and 200' sidewall confirmation sampling is also approved. A copy of this approved variance request will be added into the incident file.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me at your convenience.

Thank you,
Scott

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Chad Hamilton <chamilton@ensolum.com>

Sent: Wednesday, December 18, 2024 8:29 AM

To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; jason.touchet@matadorresources.com; Arsenio Jones <arsenio.jones@matadorresources.com>; Csnow@matadorresources.com

Cc: Ashley Giovengo <agiovengo@ensolum.com>; Dan Moir <dmoir@ensolum.com>

Subject: [EXTERNAL] Matador - Ray State Slot 4 - Incident Number nAPP2417872718 - Background Chloride Variance Request

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

Hello,

Matador Production Company (Matador) is requesting a *background chloride variance* at the Ray State Slot 4 (Site) (Incident Number nAPP2417872718). On June 26, 2024, a minion tank developed a leak resulting in the release of approximately 16 barrels (bbls) of produced water; 8 bbls were recovered from the release area. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on June 26, 2024, via web portal. The release occurred on a new well pad (constructed on April 2024) during drilling and fracking operations. The well pad was constructed through the cut of a hill down to approximately 16 feet on the northwest side and filled in the southeastern portion to level the site (see attached photographs for perspective). Production on the is Site began shortly after this release. This pad is in the vicinity of the Pecos River, which has documented elevated chloride concentrations in the water as well as the surrounding land due to floods and paleochannels cut parallel to river and naturally backfilled over time.

A desktop review for potential site receptors has been completed for this Site and according to the New Mexico Office of the State Engineer (NMOSE), the closest depth to groundwater measurement is NMOSE well C-03615 POD1 with a reported depth to groundwater measurement of 36 feet below ground surface (bgs); the well is 0.64 miles from the Site and the date of the last recorded measurement was on May 4, 2013. The site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The closest significant watercourse is an intermittent Fresh Water Emergent Wetland located approximately 420 feet northeast of the Site. The Site is not underlain by unstable geology (medium potential karst designation area) and there are no indicators of surface or subsurface karst features observed at or around the Site. Figure 1 depicts sensitive receptors applicable to the Site. Based on the results of the desktop review and a readjustment of the approved chloride variance request, the following Site Closure Criteria will apply: 10 mg/kg benzene, 50 mg/kg BTEX 100 mg/kg GRO/DRO/ORO and 600 mg/kg chloride.

On September 5, 2024, September 6, 2024, and September 19, 2024, Ensolum personnel advanced five boreholes (BG03 through BG07, Figure 2) from areas that had not been previously disturbed by oil and gas operations at depths ranging from ground surface to 18 feet bgs at the Site (See Figure 2). Laboratory analytical results indicated the presence of naturally occurring chloride concentrations in soil exceeding 600 parts per million (ppm) (also

measured as mg/kg) in all five of the undisturbed areas, with a maximum chloride concentration of 2,290 mg/kg detected at BG07. When detected, the elevated concentrations generally occurred within the caliche layer beginning at approximately 3 feet bgs to 15 feet bgs, which was observed below silty sand topsoil. (See Table 2).

Naturally occurring chloride concentrations ranging from 81.6 mg/kg to 2,290 mg/kg off pad and what appears to be naturally occurring chlorides beneath the well pad at concentrations ranging from 45.5 mg/kg to 2,870 mg/kg has been documented. When reviewing onsite pothole analytical data, demarcations of chloride impacts versus naturally occurring concentrations can be observed through correlation of TPH impacts and/or a precipitous drop in chloride concentrations with often times an increase that does not appear to be related to the release, especially based on the freshness of the release, volume unrecovered (8 bbls), and newness of the well pad (April 2024). Table 2 depicts the demarcation lines in the applicable potholes for what appears to be impacted versus naturally occurring chloride concentrations.

Based on assessments of naturally occurring chloride concentrations beneath and adjacent to the Site, Ensolum, on behalf of Matador, is proposing an adjusted Closure Criteria and sampling variance be considered for remediation of the Site, which includes the following:

- Vertical delineation to meet a chloride variance of 1,118 mg/kg; this is an average concentration of all sample depths collected within the background sampling locations.
- The original release extent detected unnaturally high chloride concentrations (>2,760 mg/kg) and associated TPH impacts. Based on Table 2, impacted soil containing chloride range in concentrations from 2,540 mg/kg to 25,700 mg/kg. Excavation of TPH and chloride impacted soil will be completed with the removal of TPH impacts to 100 mg/kg and chloride based on the demarcation lines in Table 2. In general, excavation of impacted soil is anticipated to range from 0.5 feet to 3 feet bgs based on field and laboratory analytical data.
- Floor confirmation samples will be collected on a variance frequency of one composite sample for every 400 square feet due to the high variability of naturally occurring chloride concentrations detected on and off pad. The confirmation samples will verify impacted soil in the sample locations has been removed to below the corresponding elevated chloride concentration and residual concentrations are in range of what has been observed/documented on and off pad. In general, excavation of impacted soil is anticipated to range from 0.5 feet to 3 feet bgs and confirmation samples will confirm chloride is below concentrations ranges based on field and laboratory analytical data with demarcations.
- Sidewall confirmation samples will be collected on a frequency of one composite sample for every 200 square feet of sidewall and will be compared to the sample lateral extent concentration of 1,690 mg/kg for chloride and 100 mg/kg for TPH. Sidewall confirmation samples will also be used to define the lateral extent of the release area in lieu of surface lateral delineation.

Matador is requesting this *background chloride and sampling variance* in order to

remediate/excavate soil in the release area that exceed naturally occurring chloride concentrations. Matador will submit a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC following excavation and confirmation sampling activities. Due to the regional geology with documented elevated chloride levels at or near the Site, Matador believes this *variance request* will provide equal or better protection of public health and the environment. Matador respectfully requests approval for this *variance request* associated with Incident Number (nAPP2425041943).

Thanks,



Chad Hamilton

Staff Geologist

940-923-0072

Ensolum, LLC

in f 

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

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

QUESTIONS

Action 358993

QUESTIONS

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 358993 |
| | Action Type: [NOTIFY] Notification Of Release (NOR) |

QUESTIONS

| | |
|--|------------------|
| Location of Release Source | |
| Please answer all the questions in this group. | |
| Site Name | Ray State Slot 4 |
| Date Release Discovered | 06/25/2024 |
| Surface Owner | Private |

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

| | |
|--|---|
| Nature and Volume of Release | |
| Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. | |
| Crude Oil Released (bbls) Details | Not answered. |
| Produced Water Released (bbls) Details | Cause: Equipment Failure Tank (Any) Produced Water Released: 16 BBL Recovered: 8 BBL Lost: 8 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | No |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered. |

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State of New Mexico
Energy, Minerals and Natural Resources
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QUESTIONS, Page 2

Action 358993

QUESTIONS (continued)

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 358993 |
| | 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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1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 358993

ACKNOWLEDGMENTS

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 358993 |
| | 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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State of New Mexico
Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 358993

CONDITIONS

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 358993 |
| | 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. | 6/26/2024 |

| Impacted Soil | |
|--|------|
| Saturated Soil (inches) | |
| | 0.5 |
| | |
| | 5420 |
| Standing fluids | |
| inches of standing fluid | |
| | 0 |
| bbl estimate of standing fluids | |
| | 0.0 |
| barrels recovered (if known) | |
| | 8 |
| | |
| Soil type | |
| pad caliche | |
| Spill type | |
| produced water | |
| | |
| Barrel estimate in soil | |
| | 8.0 |
| Barrel estimate (standing fluids/ recovered+in soil) | |
| | 16.0 |

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

QUESTIONS

Action 360021

QUESTIONS

| | |
|---|---|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 360021 |
| | Action Type: [C-141] Initial C-141 (C-141-v-Initial) |

QUESTIONS

| | |
|----------------------|--|
| Prerequisites | |
| Incident ID (n#) | nAPP2417872718 |
| Incident Name | NAPP2417872718 RAY STATE SLOT 4 @ 30-015-45958 |
| Incident Type | Produced Water Release |
| Incident Status | Initial C-141 Received |
| Incident Well | [30-015-45958] DR SCRIVNER FEDERAL COM #207H |

| | |
|--|------------------|
| Location of Release Source | |
| Please answer all the questions in this group. | |
| Site Name | Ray State Slot 4 |
| Date Release Discovered | 06/25/2024 |
| Surface Owner | Private |

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

| | |
|--|---|
| Nature and Volume of Release | |
| Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. | |
| Crude Oil Released (bbls) Details | Not answered. |
| Produced Water Released (bbls) Details | Cause: Equipment Failure Tank (Any) Produced Water Released: 16 BBL Recovered: 8 BBL Lost: 8 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | No |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered. |

District I

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

District II

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 360021

QUESTIONS (continued)

| | |
|---|---|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 360021 |
| | 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: 07/01/2024 |
|--|--|

District I

1625 N. French Dr., Hobbs, NM 88240
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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 360021

QUESTIONS (continued)

| | |
|---|---|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 360021 |
| | 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. |
| What is the minimum distance, between the closest lateral extents of the release and the following surface areas: | |
| A continuously flowing watercourse or any other significant watercourse | 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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 360021

CONDITIONS

| | |
|---|---|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 360021 |
| | Action Type: [C-141] Initial C-141 (C-141-v-Initial) |

CONDITIONS

| | | |
|---------------|-----------|----------------|
| Created By | Condition | Condition Date |
| scott.rodgers | None | 7/1/2024 |

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Phone: (505) 629-6116

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Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 433306

QUESTIONS

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 433306 |
| | Action Type: [NOTIFY] Notification Of Sampling (C-141N) |

QUESTIONS

| Prerequisites | |
|------------------|--|
| Incident ID (n#) | nAPP2417872718 |
| Incident Name | NAPP2417872718 RAY STATE SLOT 4 @ 30-015-45958 |
| Incident Type | Produced Water Release |
| Incident Status | Initial C-141 Approved |
| Incident Well | [30-015-45958] DR SCRIVNER FEDERAL COM #207H |

| Location of Release Source | |
|----------------------------|------------------|
| Site Name | RAY STATE SLOT 4 |
| Date Release Discovered | 06/25/2024 |
| Surface Owner | Private |

| Sampling Event General Information | |
|---|---|
| <i>Please answer all the questions in this group.</i> | |
| What is the sampling surface area in square feet | 22,700 |
| What is the estimated number of samples that will be gathered | 70 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 02/27/2025 |
| Time sampling will commence | 09:00 AM |
| Please provide any information necessary for observers to contact samplers | Please contact Jimmy Gonzalez @ (575) 909-3249. A 400 sq foot confirmation sampling variance was approved by NMOCD. |
| Please provide any information necessary for navigation to sampling site | 32.2524342,-104.034083 |

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CONDITIONS

Action 433306

CONDITIONS

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 433306 |
| | 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. | 2/19/2025 |

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 433307

QUESTIONS

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 433307 |
| | Action Type: [NOTIFY] Notification Of Sampling (C-141N) |

QUESTIONS

| | |
|----------------------|--|
| Prerequisites | |
| Incident ID (n#) | nAPP2417872718 |
| Incident Name | NAPP2417872718 RAY STATE SLOT 4 @ 30-015-45958 |
| Incident Type | Produced Water Release |
| Incident Status | Initial C-141 Approved |
| Incident Well | [30-015-45958] DR SCRIVNER FEDERAL COM #207H |

| | |
|-----------------------------------|------------------|
| Location of Release Source | |
| Site Name | RAY STATE SLOT 4 |
| Date Release Discovered | 06/25/2024 |
| Surface Owner | Private |

| | |
|---|---|
| Sampling Event General Information | |
| <i>Please answer all the questions in this group.</i> | |
| What is the sampling surface area in square feet | 22,700 |
| What is the estimated number of samples that will be gathered | 70 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 02/26/2025 |
| Time sampling will commence | 09:00 AM |
| Please provide any information necessary for observers to contact samplers | Please contact Jimmy Gonzalez @ (575) 909-3249. A 400 sq foot confirmation sampling variance was approved by NMOCD. |
| Please provide any information necessary for navigation to sampling site | 32.2524342,-104.034083 |

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CONDITIONS

Action 433307

CONDITIONS

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 433307 |
| | 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. | 2/19/2025 |

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QUESTIONS

Action 433308

QUESTIONS

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 433308 |
| | Action Type: [NOTIFY] Notification Of Sampling (C-141N) |

QUESTIONS

| Prerequisites | |
|------------------|--|
| Incident ID (n#) | nAPP2417872718 |
| Incident Name | NAPP2417872718 RAY STATE SLOT 4 @ 30-015-45958 |
| Incident Type | Produced Water Release |
| Incident Status | Initial C-141 Approved |
| Incident Well | [30-015-45958] DR SCRIVNER FEDERAL COM #207H |

| Location of Release Source | |
|----------------------------|------------------|
| Site Name | RAY STATE SLOT 4 |
| Date Release Discovered | 06/25/2024 |
| Surface Owner | Private |

| Sampling Event General Information | |
|---|---|
| <i>Please answer all the questions in this group.</i> | |
| What is the sampling surface area in square feet | 22,700 |
| What is the estimated number of samples that will be gathered | 70 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 02/25/2025 |
| Time sampling will commence | 09:00 AM |
| Please provide any information necessary for observers to contact samplers | Please contact Jimmy Gonzalez @ (575) 909-3249. A 400 sq foot confirmation sampling variance was approved by NMOCD. |
| Please provide any information necessary for navigation to sampling site | 32.2524342,-104.034083 |

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

CONDITIONS

Action 433308

CONDITIONS

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 433308 |
| | 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. | 2/19/2025 |

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Oil Conservation Division
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QUESTIONS

Action 433309

QUESTIONS

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 433309 |
| | Action Type: [NOTIFY] Notification Of Sampling (C-141N) |

QUESTIONS

| Prerequisites | |
|------------------|--|
| Incident ID (n#) | nAPP2417872718 |
| Incident Name | NAPP2417872718 RAY STATE SLOT 4 @ 30-015-45958 |
| Incident Type | Produced Water Release |
| Incident Status | Initial C-141 Approved |
| Incident Well | [30-015-45958] DR SCRIVNER FEDERAL COM #207H |

| Location of Release Source | |
|----------------------------|------------------|
| Site Name | RAY STATE SLOT 4 |
| Date Release Discovered | 06/25/2024 |
| Surface Owner | Private |

| Sampling Event General Information | |
|---|---|
| <i>Please answer all the questions in this group.</i> | |
| What is the sampling surface area in square feet | 22,700 |
| What is the estimated number of samples that will be gathered | 70 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 02/24/2025 |
| Time sampling will commence | 09:00 AM |
| Please provide any information necessary for observers to contact samplers | Please contact Jimmy Gonzalez @ (575) 909-3249. A 400 sq foot confirmation sampling variance was approved by NMOCD. |
| Please provide any information necessary for navigation to sampling site | 32.2524342,-104.034083 |

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Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 433309

CONDITIONS

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 433309 |
| | 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. | 2/19/2025 |

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QUESTIONS

Action 444217

QUESTIONS

| | |
|---|---|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 444217 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|----------------------|--|
| Prerequisites | |
| Incident ID (n#) | nAPP2417872718 |
| Incident Name | NAPP2417872718 RAY STATE SLOT 4 @ 30-015-45958 |
| Incident Type | Produced Water Release |
| Incident Status | Remediation Closure Report Received |
| Incident Well | [30-015-45958] DR SCRIVNER FEDERAL COM #207H |

Location of Release Source

Please answer all the questions in this group.

| | |
|-------------------------|------------------|
| Site Name | RAY STATE SLOT 4 |
| Date Release Discovered | 06/25/2024 |
| Surface Owner | Private |

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

| | |
|--|---|
| Crude Oil Released (bbls) Details | Not answered. |
| Produced Water Released (bbls) Details | Cause: Equipment Failure Tank (Any) Produced Water Released: 16 BBL Recovered: 8 BBL Lost: 8 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes |
| 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 444217

QUESTIONS (continued)

| | |
|---|---|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 444217 |
| | 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: jason.touchet@matadorresources.com Date: 03/20/2025 |
|--|--|

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QUESTIONS, Page 3

Action 444217

QUESTIONS (continued)

| | |
|---|---|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 444217 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|--|--------------------------------|
| Site Characterization | |
| <i>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.</i> | |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 26 and 50 (ft.) |
| What method was used to determine the depth to ground water | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water | No |
| What is the minimum distance, between the closest lateral extents of the release and the following surface areas: | |
| A continuously flowing watercourse or any other significant watercourse | Between 300 and 500 (ft.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between 1 and 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Between 1 and 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between 1 and 5 (mi.) |
| Any other fresh water well or spring | Greater than 5 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Between 1 and 5 (mi.) |
| A wetland | Between 300 and 500 (ft.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Between 1 and 5 (mi.) |
| Categorize the risk of this well / site being in a karst geology | Medium |
| A 100-year floodplain | Between 300 and 500 (ft.) |
| Did the release impact areas not on an exploration, development, production, or storage site | No |

| | |
|---|------------|
| Remediation Plan | |
| <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> | |
| 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) | 25700 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 2385 |
| GRO+DRO (EPA SW-846 Method 8015M) | 545 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 0 |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 0 |
| <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> | |
| On what estimated date will the remediation commence | 02/24/2025 |
| On what date will (or did) the final sampling or liner inspection occur | 02/27/2025 |
| On what date will (or was) the remediation complete(d) | 02/27/2025 |
| What is the estimated surface area (in square feet) that will be reclaimed | 0 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 0 |
| What is the estimated surface area (in square feet) that will be remediated | 22400 |
| What is the estimated volume (in cubic yards) that will be remediated | 1580 |
| <i>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.</i> | |
| <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> | |

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Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS, Page 4

Action 444217

QUESTIONS (continued)

| | |
|---|---|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 444217 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|--|--|
| Remediation Plan (continued) | |
| <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> | |
| This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: | |
| <i>(Select all answers below that apply.)</i> | |
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) | Yes |
| Which OCD approved facility will be used for off-site disposal | <i>Not answered.</i> |
| OR which OCD approved well (API) will be used for off-site disposal | <i>Not answered.</i> |
| OR is the off-site disposal site, to be used, out-of-state | <i>Not answered.</i> |
| OR is the off-site disposal site, to be used, an NMED facility | Yes |
| What is the name of the NMED facility | Lea Land LLC |
| (Ex Situ) Excavation and on-site 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: jason.touchet@matadorresources.com Date: 03/20/2025 |
| <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> | |

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QUESTIONS, Page 5

Action 444217

QUESTIONS (continued)

| | |
|---|---|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 444217 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

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| 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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QUESTIONS, Page 6

Action 444217

QUESTIONS (continued)

| | |
|---|---|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 444217 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Sampling Event Information | |
|---|------------|
| Last sampling notification (C-141N) recorded | 433306 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 02/27/2025 |
| What was the (estimated) number of samples that were to be gathered | 70 |
| What was the sampling surface area in square feet | 22700 |

| Remediation Closure Request | |
|---|--|
| <i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i> | |
| 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 | 22400 |
| What was the total volume (cubic yards) remediated | 1580 |
| 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 | 22400 |
| What was the total volume (in cubic yards) reclaimed | 1580 |
| Summarize any additional remediation activities not included by answers (above) | N/A |
| <p><i>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></p> | |
| <p>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.</p> | |
| I hereby agree and sign off to the above statement | Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 03/20/2025 |

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QUESTIONS, Page 7

Action 444217

QUESTIONS (continued)

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|---|---|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 444217 |
| | 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 444217

CONDITIONS

| | |
|---|---|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 444217 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|--|----------------|
| scott.rodgers | This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete". | 4/21/2025 |