



December 1, 2025

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

Re: Remediation Work Plan
Ray State Slot 3 TB
Incident Number: nAPP2513253339
Eddy County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company, (Matador), has prepared this *Remediation Work Plan (RWP)* to document assessment and soil sampling activities performed at the Ray State Slot 3 TB (Site) and proposing additional remedial actions. The purpose of the Site assessment and soil sampling activities was to address impacted soil resulting from a produced water release. Matador is submitting this *RWP*, describing analytical results from delineation soil sampling activities associated with Incident Number nAPP2513253339 and from an investigation into naturally occurring chloride at the Site. Matador is proposing excavation of the subject matter release within the parameters of a background chloride variance request and prior to submitting a *Deferral or Closure Request*.

BACKGROUND

The Site is located in Unit N, Section 36, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.25514°, -104.04419°) and is associated with oil and gas exploration and production operations on private land.

On May 11, 2025, an equipment failure resulted in the release of approximately 8 barrels (bbls) of produced water onto the pad surface; 2 bbls of produced water were recovered, 6 bbls of produced water were unrecoverable. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal and submitted a Release Notification Form C-141 (Form C-141) on May 12, 2025. The release was assigned Incident Number nAPP2513253339.

Due to the difficulty in completing lateral and vertical delineation soil sampling in accordance with the strictest Closure Criteria per NMOCD Table I, an initial 90-day extension request was submitted to the NMOCD on August 11, 2025, and approved by the NMOCD on the same day. It was determined, through delineation soil sampling activities, that investigation into the naturally occurring background chloride at the Site would be necessary. NMOCD approved four background soil sample locations near the Site and Ensolum, on behalf of Matador, submitted a background chloride variance request to the NMOCD on September 19, 2025. The request was denied on the same day. A second 90-day extension request was submitted to the NMOCD and denied on November 10, 2025. On November 19, 2025, personnel from Ensolum, Matador, and the NMOCD met to further discuss the naturally occurring background chloride observed at the Site and a second background chloride variance was submitted on November 21, 2025.

In order to address the concerns regarding naturally occurring chloride at the Site, Matador is submitting this RWP, describing analytical results from delineation soil sampling activities and requesting a background chloride variance at the Site prior to beginning remediation of the subject matter release.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Site Assessment/Characterization is described below.

According to the New Mexico Office of the State Engineer (NMOSE), the closest permitted groundwater well with depth to groundwater data is CP 04901 POD1, located approximately 0.73 miles west of the Site. The well had a reported depth to groundwater of 52 feet below ground surface (bgs) and a total depth of 55 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is the Pecos River, located approximately 1,626 feet southeast 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 potentially underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the desktop Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) *currently* 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

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

Beginning on May 19, 2025, Ensolum personnel were onsite to delineate the lateral and vertical extent of the release as indicated by field observations and information provided in the C-141. Eight lateral soil samples (SS01 through SS08) were collected at ground surface and 1-foot bgs. Four boreholes (BH01 through BH04) were advanced via hand auger within the release extent to assess the vertical extent of impacted soil. Boreholes BH01 through BH04 were advanced to depths ranging from 3 feet to 8 feet bgs.

On June 25 and 26, 2025, Ensolum personnel returned to the Site to conduct background soil sampling to assess for the presence or absence of naturally occurring chloride in undisturbed soil horizons near the Site. Four background soil sample locations (BG01 through BG04) were selected based on vegetation, proximity to the Site and in areas that did not appear to be disturbed by oil and gas operations; The background sample locations were approved by the NMOCD on June 10, 2025. Boreholes BG01 through BG03 were collected at depths ranging from ground surface to 7 feet bgs and borehole BG04 was collected at depths ranging from ground surface to a refusal depth of 4 feet bgs.

Delineation soil sample locations are presented on Figure 2 and background soil sample locations are presented on Figure 3.

All delineation soil samples were field screened for chloride and TPH utilizing Hach® chloride QuanTab® test strips and a PetroFLAG® Soil Analyzer System, respectively. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. Photographic documentation of delineation activities is included in Appendix C.

All soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following constituents 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.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 through SS08 were all in compliance with the Site Closure Criteria at ground surface and 1-foot bgs (both located within the imported caliche pad). Laboratory analytical results for Boreholes BH01 and BH02 indicated all COCs were in compliance with the strictest Closure Criteria per NMOCD Table I at 1-foot bgs, and 2 feet bgs respectively (all within the imported caliche pad). The concentration of chloride begins to exceed the Site Closure Criteria at a depth of 2-feet bgs in BH01 and 4 feet bgs in BH02 indicating the terminus of the cut and fill pad and the beginning of the naturally occurring chloride horizons beneath the well pad. Laboratory analytical results for boreholes BH01 and BH04 indicated concentrations for TPH exceeded Site Closure Criteria at ground surface but were in compliance with the strictest Closure Criteria per NMOCD Table I for TPH at 1-foot bgs and 2 feet bgs, respectively. Laboratory analytical results for borehole BH03 indicated gross chloride impacts (>9,990 mg/kg) at ground surface but concentrations were within the natural range at 2 feet bgs.

Laboratory analytical results for background delineation soil sample BG01 indicated COC concentrations were in compliance with the Site Closure Criteria. Laboratory analytical results for background delineation soil samples BG02 through BG04 indicated concentrations for benzene, BTEX, and TPH were non-detect and chloride concentration were elevated (451 mg/kg to 9,990 mg/kg) at depths ranging from ground surface to 7 feet bgs. Laboratory analytical results are summarized in Tables 1 and 2, and the complete laboratory analytical reports are included as Appendix D.

BACKGROUND CHLORIDE VARIANCE

Vertical delineation results from delineation boreholes BH01 through BH04 indicated gross impacts from the release at ground surface (36,500 mg/kg) in BH04 to 2 feet bgs (6,470 mg/kg) in BH04. The drop in chloride concentration from ground surface (11,900 mg/kg) to 1-foot bgs (74.2 mg/kg) in BH01 and 12,300 mg/kg at ground surface to 485 mg/kg at 1-foot bgs in BH02, exhibit a demarcation of impacts in the non-chloride bearing, imported caliche material. The drop in chloride concentration from ground surface 2 feet bgs (7,940 mg/kg) to 4 feet bgs (714 mg/kg) indicates naturally occurring chlorides were not present in the imported caliche since concentrations directly beneath the imported caliche increase in chloride concentration. Gross impacts from the release are present from ground surface to approximately 2 feet bgs (6,470 mg/kg) in BH04. Obvious gross impacts from the produced water spill are generally confined to the top 2 feet of soil beneath the release footprint, and still with the upper

portion of the imported caliche. The soil structure documented beneath the release extent is naturally high in chloride and is contributing to the perceived impacted soil beneath the release extent.

PROPOSED REMEDIATION WORK PLAN

Matador proposes to complete excavation activities at the Site according to the following actions:

- Vertical delineation in accordance with the strictest Closure Criteria has been met within the imported caliche material in boreholes BH01 and BH02. Vertical delineation in accordance with the proposed background chloride range of <20.0 mg/kg to 9,990 mg/kg was achieved in boreholes BH03 and BH04.
- The original release extent detected unnaturally high chloride concentrations (>9,990 mg/kg) with associated TPH impacts. Based on Table 2, impacted soil is demarcated by chloride concentrations ranging from 11,900 mg/kg to 36,500 mg/kg. Excavation of TPH and chloride impacted soil will be achieved through the removal of TPH impacts to below 100 mg/kg and chloride impacts to below 7,940 mg/kg based on the demarcation lines in Table 2. In general, excavation of impacted soil is anticipated to range from 1-foot to 2 feet bgs based on laboratory analytical data.
- Sidewall confirmation samples will be collected on a frequency of one composite samples for every 200 square feet of sidewall and will be collected in accordance with the strictest Closure Criteria in areas where the depth of the excavation remains within the imported pad material. If sidewall soil sample location depths extend beneath the constructed pad and into natural material, sidewall soil samples will meet a chloride concentration less than 4,110 mg/kg and a TPH concentration of less than 100 mg/kg. This concentration is within the range of naturally occurring chlorides and does not consider the outlier of 9,990 mg/kg..
- Based on laboratory analytical results, the proposed excavation extent measures 3,822 square feet in size and an estimated 340 cubic yards (35% expansion factor included), will be removed from the Site (see Figure 4).
- Excavate any impacted or waste-containing soil from within the release extent to the maximum extent practicable (MEP). Impacted and/or waste-containing soil will be transferred to an approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions.
- If there are areas to be deferred on pad due to the presence of equipment and/or pipelines, such as those under a lined secondary containment, lateral delineation samples will be collected to properly quantify the residual soil impacts that will be addressed during major Site reconstruction or following plugging and abandonment of the well and reclamation of the well pad.

Matador will complete the proposed excavation and soil sampling activities within 180 days of the date of approval of this *RWP* by the NMOCD.

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

Matador Production Company
Remediation Work Plan
Ray State Slot 3 TB



Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read 'CHAD HAMILTON'.

Chad Hamilton
Project Geologist

A handwritten signature in black ink, appearing to read 'DANIEL R. MOIR'.

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

cc: Jason Touchet, Matador

Appendices:

Figure 1 Site Receptor Map
Figure 2 Delineation Soil Sample Locations
Figure 3 Background Delineation Soil Sample Locations
Figure 4 Proposed Excavation Extent

Table 1 Soil Sample Analytical Results (Delineation Soil Samples)
Table 2 Soil Sample Analytical Results (Background Delineation Soil Samples)
Table 3 Background Delineation Soil Sample Averages

Appendix A Well Record and Log
Appendix B Lithologic Soil Sampling Logs
Appendix C Photographic Log
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E NMOCD Correspondence



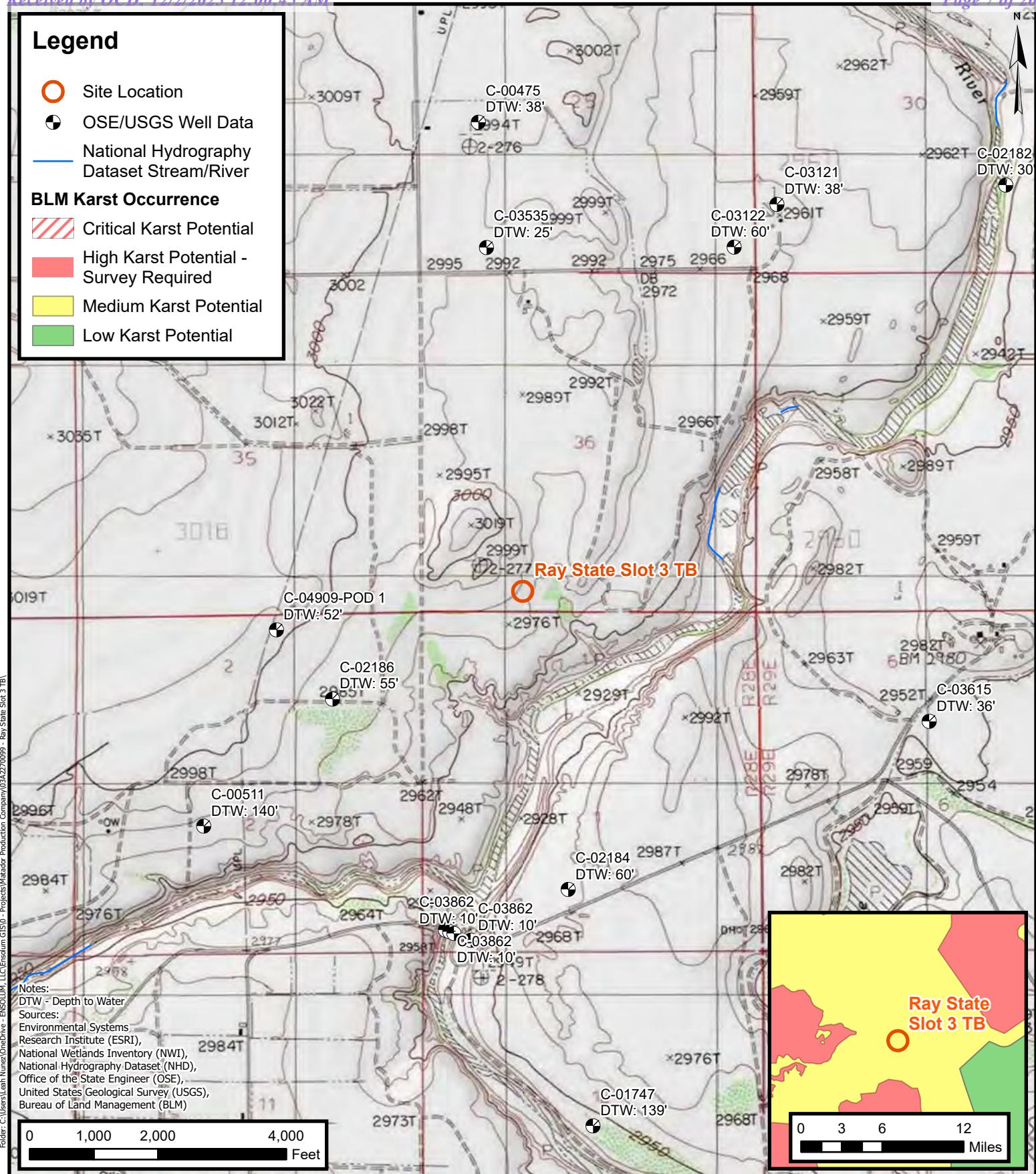
FIGURES

Legend

- Site Location
- OSE/USGS Well Data
- National Hydrography Dataset Stream/River

BLM Karst Occurrence

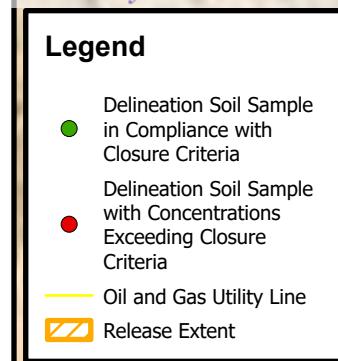
- Critical Karst Potential
- High Karst Potential - Survey Required
- Medium Karst Potential
- Low Karst Potential



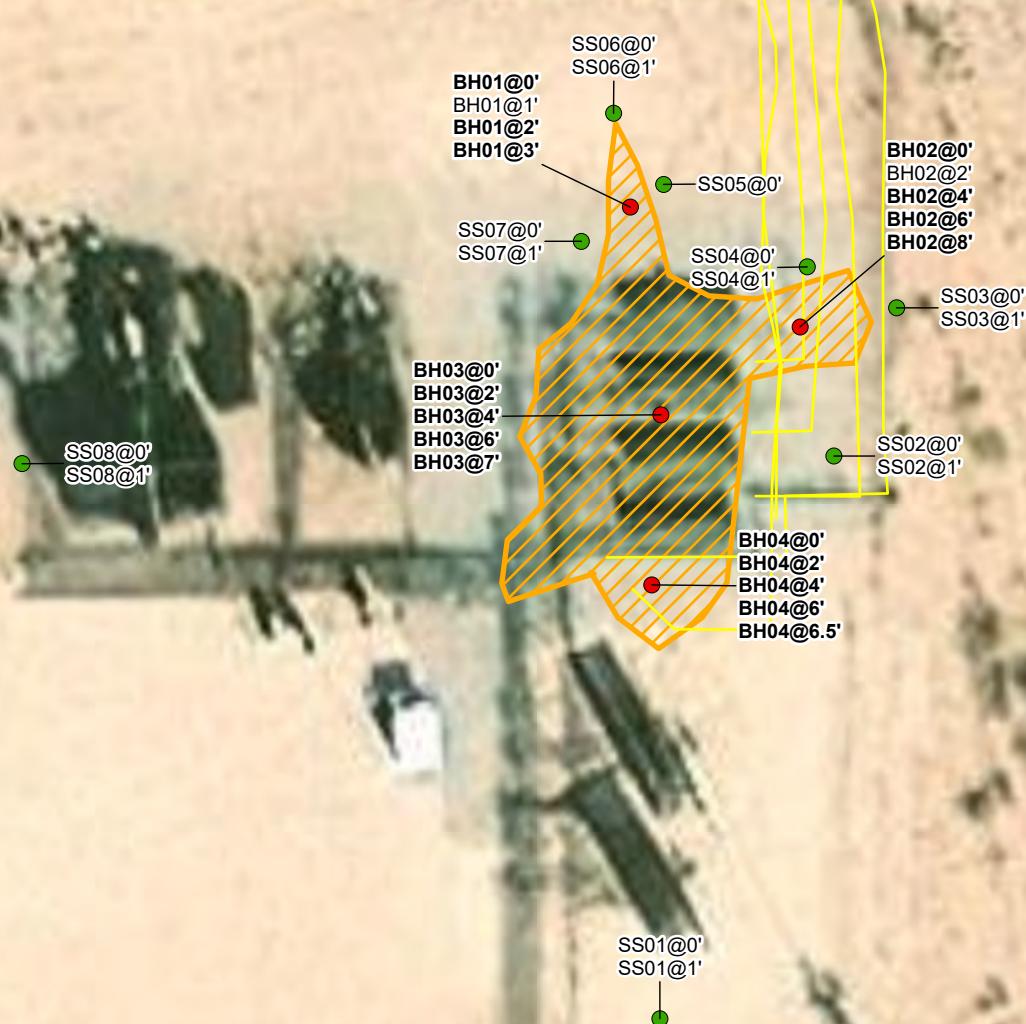
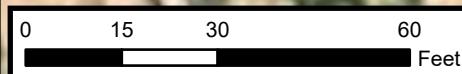
Site Receptor Map

Matador Production Company
 Ray State Slot 3 TB
 Incident Number: nAPP251325339
 Unit N, Section 36, T 23S, R 28E
 Eddy County, New Mexico

FIGURE
1



N

Notes:
Sample ID @ Depth Below Ground Surface.
Samples in **bold** indicate sample exceeded applicable Closure Criteria.

Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

Matador Production Company

Ray State Slot 3 TB

Incident Number: nAPP251325339

Unit N, Section 36, T 23S, R 28E

Eddy County, New Mexico

FIGURE
2

Legend

- Background Soil Sample in Compliance with Closure Criteria
- Background Soil Sample with Concentrations Exceeding Closure Criteria
- Background Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Oil and Gas Utility Line
- Release Extent



Environmental, Engineering and Hydrogeologic Consultants

Background Soil Sample Locations

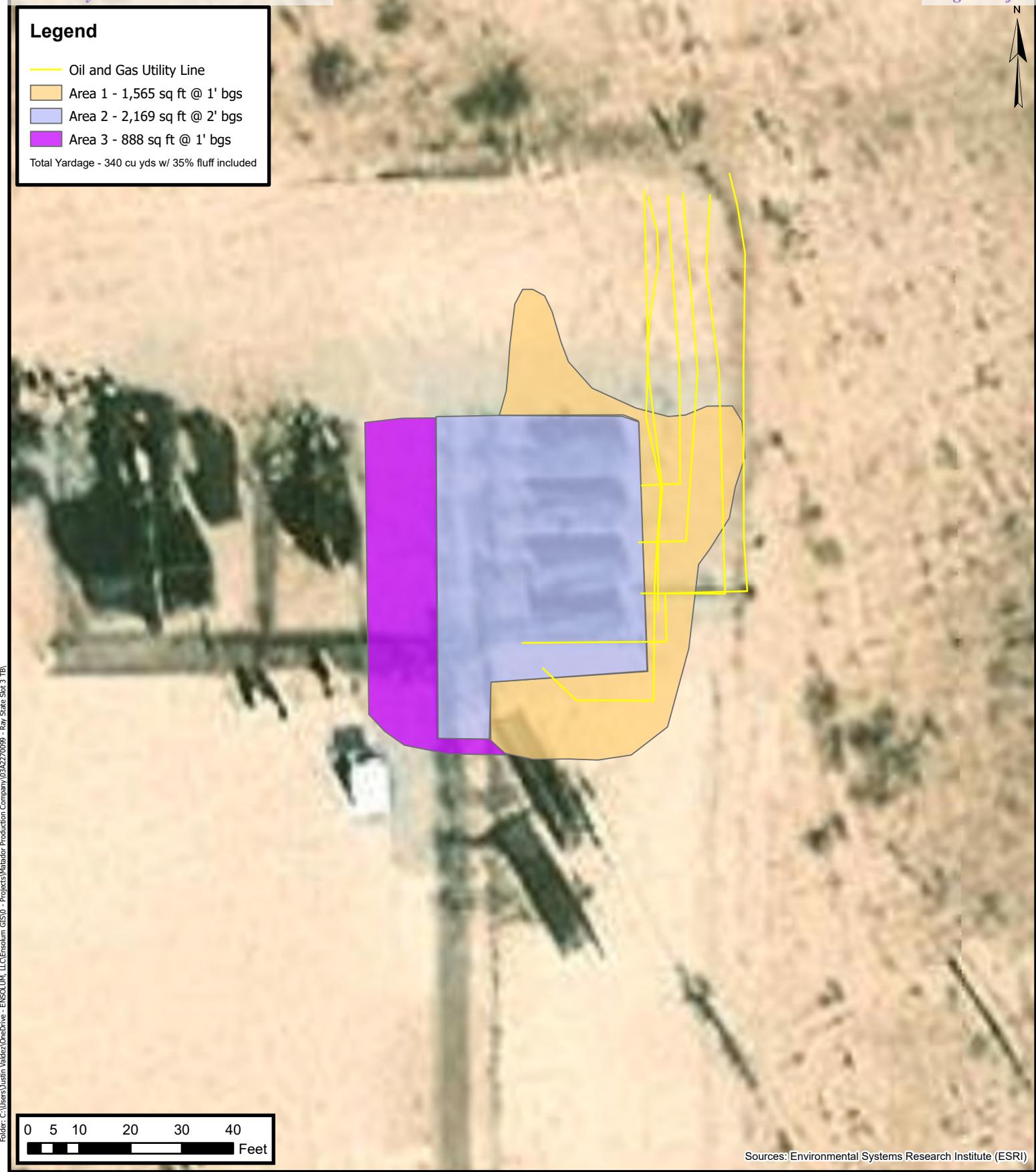
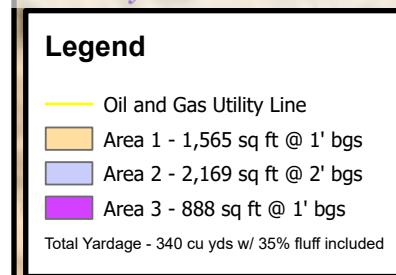
Matador Production Company

Ray State Slot 3 TB

Incident Number: nAPP2513253339

Unit N, Section 36, T 23S, R 28E
Eddy County, New Mexico

**FIGURE
3**



Proposed Excavation Extent

Matador Production Company
Ray State Slot 3 TB
Incident Number: nAPP2513253339
Unit N, Section 36, T 23S, R 28E
Eddy County, New Mexico

FIGURE
4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Ray State Slot 3 TB
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	NE	100	600
Delineation Soil Samples										
SS01	5/20/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	230
SS01	5/20/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	387
SS02	5/20/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS02	5/20/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	244
SS03	5/19/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03	5/19/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	5/19/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	5/19/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS05	5/19/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	360
SS06	5/19/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
SS06	5/19/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	28.3
SS07	5/19/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SS07	5/19/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SS08	5/20/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	61.5
SS08	5/20/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	261
BH01	5/20/2025	0	<0.0250	<0.0500	<20.0	135	157	135	292	11,900
BH01	5/20/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	74.2
BH01	5/20/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	931
BH01	6/4/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,150
BH02	6/4/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	12,300
BH02	6/4/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	485
BH02	6/4/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,910
BH02	6/4/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,690
BH02	6/4/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,160



TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
Ray State Slot 3 TB
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	NE	100	600
Delineation Soil Samples										
BH03	6/4/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	14,100
BH03	6/4/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	7,940
BH03	6/4/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	714
BH03	6/4/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,580
BH03	6/4/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,340
BH04	6/4/2025	0	<0.0250	0.164	<20.0	1,850	457	1,850	2,307	36,500
BH04	6/4/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,470
BH04	6/4/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,540
BH04	6/4/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,140
BH04	6/4/2025	6.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	665

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

<: Laboratory Analytical result is less than reporting limit

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

Indicates depth containing gross chloride impacts to be excavated.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
Ray State Slot 3 TB
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 Delineation Soil Samples										
BG01*	6/25/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BG01*	6/25/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BG01*	6/25/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	20.7
BG01*	6/25/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	56.6
BG01*	6/25/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	113
BG01*	6/25/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	152
BG01*	6/25/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	257
BG01*	6/25/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	279
BG02*	6/25/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,160
BG02*	6/25/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,110
BG02*	6/25/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,910
BG02*	6/25/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,110
BG02*	6/25/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,600
BG02*	6/25/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,570
BG02*	6/25/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,620
BG02*	6/25/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,160
BG03*	6/25/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	9,990
BG03*	6/25/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,550
BG03*	6/25/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,610
BG03*	6/25/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,260
BG03*	6/25/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,090
BG03*	6/25/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	606
BG03*	6/25/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	451
BG03*	6/25/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	697



TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
Ray State Slot 3 TB
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 Delineation Soil Samples										
BG04*	6/26/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	37.1
BG04*	6/26/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,560
BG04*	6/26/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,870
BG04*	6/26/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	909
BG04*	6/26/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

"<": 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



APPENDIX A

Well Record and Log



WELL RECORD & LOG
OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

www.ose.state.nm.us

FOR OSE INTERNAL USE

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

FILE NO.

POD NO

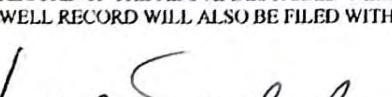
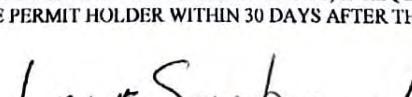
TRN NO.

LOCATION

WELL TAG ID NO

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.	
6. SIGNATURE	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	
	Scott Scarborough	
BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.		
 		12/13/2024
SIGNATURE OF DRILLER / PRINT SIGNEE NAME		DATE

FOR QSE INTERNAL USE

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

FILE NO.

POD NO.

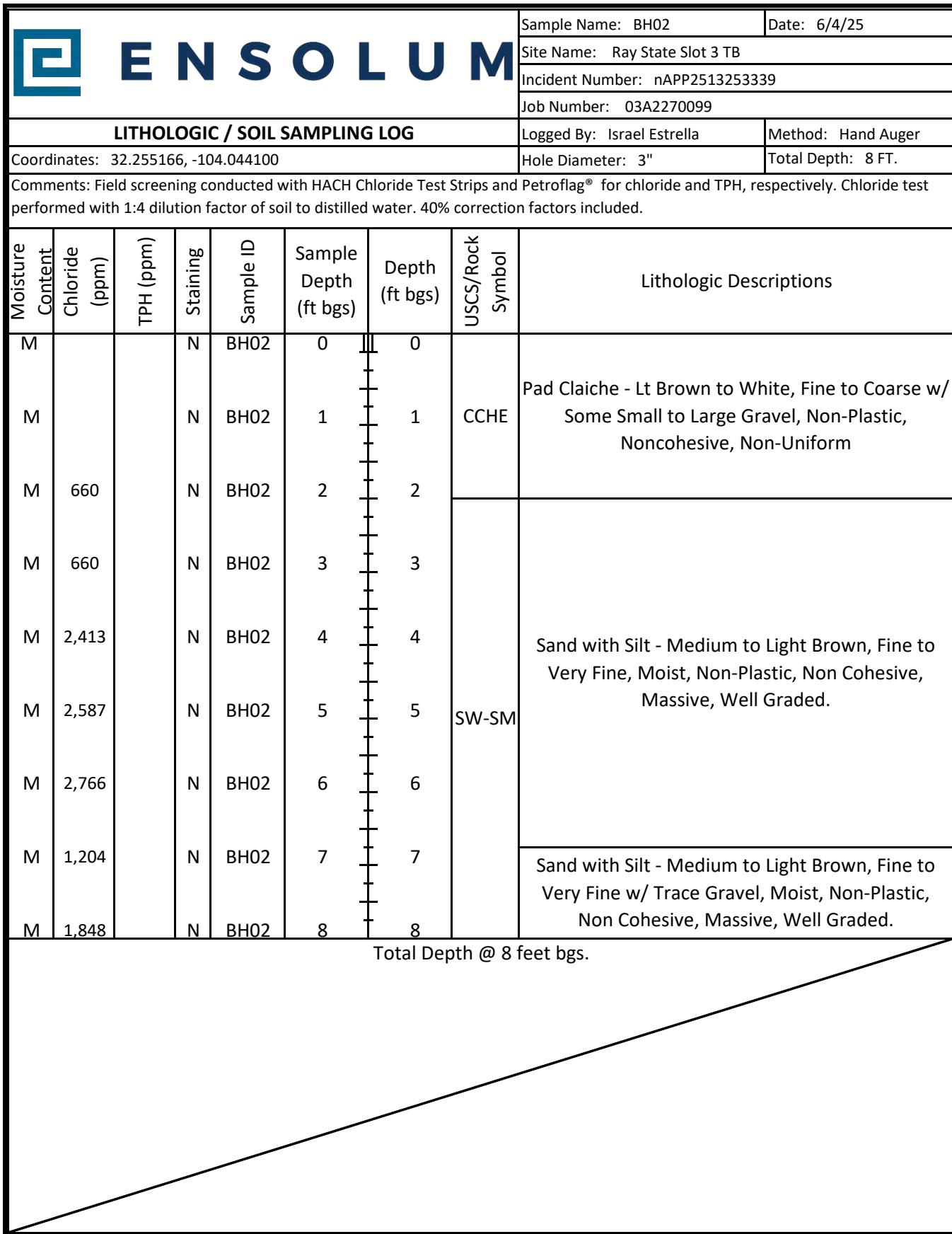
TRN NO.



APPENDIX B

Lithologic Soil Sampling Logs

 ENSOLUM							Sample Name: BH01	Date: 6/4/25
							Site Name: Ray State Slot 3 TB	
							Incident Number: nAPP2513253339	
							Job Number: 03A2270099	
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Israel Estrella	Method: Hand Auger
Coordinates: 32.255217, -104.044235							Hole Diameter: 3"	Total Depth: 3 FT.
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH01	0	0	CCHE	Pad Claiche - Lt Brown to White, Fine to Coarse w/ Some Small to Large Gravel, Non-Plastic, Noncohesive, Non-Uniform
M			N	BH01	1	1		
D	1,058		N	BH01	2	2	SM	Silty Sand - Medium to Light Brown, Fine to Very Fine w/ trace gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	1,440		N	BH01	3	3		
Total Depth @ 3 feet bgs.								



 ENSOLUM							Sample Name: BH03	Date: 6/4/25
							Site Name: Ray State Slot 3 TB	
							Incident Number: nAPP2513253339	
							Job Number: 03A2270099	
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Israel Estrella	Method: Hand Auger
Coordinates: 32.255037, -104.044195							Hole Diameter: 3"	Total Depth: 7 FT.
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH03	0	0	CCHE	Pad Claiche - Lt Brown to White, Fine to Coarse w/ Some Small to Large Gravel, Non-Plastic, Noncohesive, Non-Uniform
M	>3438		N	BH03	1	1		
M			N	BH03	2	2		
M	1,607		N	BH03	3	3		
M	795		N	BH03	4	4	SW-SM	Sand with Silt - Medium to Light Brown, Fine to Very Fine w/ Trace Gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	2,256		N	BH03	5	5		
M	3,192		N	BH03	6	6		
M	2,111		N	BH03	7	7		
Total Depth @ 7 feet bgs.								

 ENSOLUM							Sample Name: BH04	Date: 6/4/25
Site Name: Ray State Slot 3 TB								
Incident Number: nAPP2513253339								
Job Number: 03A2270099								
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Israel Estrella	Method: Hand Auger
Coordinates: 32.255119, -104.044206				Hole Diameter: 3"			Total Depth: 6.5 FT.	
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			N	BH04	0	0	CCHE	Pad Claiche - Lt Brown to White, Fine to Coarse w/ Some Small to Large Gravel, Non-Plastic, Noncohesive, Non-Uniform
M			N	BH04	1	1		
M			N	BH04	2	2		
M			N	BH04	3	3		
M	1,848		N	BH04	4	4	SW-SM	Sand with Silt - Medium to Light Brown, Fine to Very Fine w/ Trace Gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	1,114		N	BH04	5	5		
M	2,111		N	BH04	6	6		
M	1,246		N	BH04	6.5			
Total Depth @ 6.5 bgs.								

 ENSOLUM							Sample Name: BG01	Date: 6/25/25
							Site Name: Ray State Slot 3 TB	
							Incident Number: nAPP2513253339	
							Job Number: 03A2270099	
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Israel Estrella	Method: Hand Auger
Coordinates: 32.254065, -104.046656							Hole Diameter: 3"	Total Depth: 7 FT.
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflsg® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. TPH field screen readings exceed Site Criteria are indicative of biological matter within the soil sample. 40% correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	ND	108	N	BG01	0	0	SM	Silty Sand - Medium to Light Brown, Fine to Very Fine w/ trace gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	ND		N	BG01	1	1	SM	Silty Sand - Medium to Light Brown, Fine to Very Fine w/ Trace Gravel, Dry, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	ND		N	BG01	2	2	SM	Silty Sand - Medium to Light Brown, Fine to Very Fine w/ Trace Gravel, Dry, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	ND		N	BG01	3	3		
M	224		N	BG01	4	4		
M	296		N	BG01	5	5	SW-SM	Sand with Silt - Medium to Light Brown, Fine to Very Fine w/ Trace Gravel, Dry, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	593		N	BG01	6	6		
M	431		N	BG01	7	7		
Total Depth @ 7 feet bgs.								

 ENSOLUM							Sample Name: BG02	Date: 6/25/25
							Site Name: Ray State Slot 3 TB	
							Incident Number: nAPP2513253339	
							Job Number: 03A2270099	
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Israel Estrella	Method: Hand Auger
Coordinates: 32.254388, -104.043498							Hole Diameter: 3"	Total Depth: 7 FT.
<p>Comments: Field screening conducted with HACH Chloride Test Strips and Petrofslg® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. TPH field screen readings exceed Site Criteria are indicative of biological matter within the soil sample. 40% correction factors included.</p>								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	1,195	33	N	BG02	0	0		
M	>3,413		N	BG02	1	1	SM	Silty Sand - Medium to Light Brown, Fine to Very Fine w/ trace gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	2,096		N	BG02	2	2		
M	1,106		N	BG02	3	3	SW-SM	Sand with Silt - Medium to Light Brown, Fine to Very Fine w/ Trace Gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	2,241		N	BG02	4	4		
M	2,241		N	BG02	5	5	SM	Silty Sand - Medium to Light Brown, Fine to Very Fine w/ trace gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	2,096		N	BG02	6	6		
M	2,746	33	N	BG02	7	7		
Total Depth @ 7 feet bgs.								

 ENSOLUM							Sample Name: BG03	Date: 6/25/25
Site Name: Ray State Slot 3 TB								
Incident Number: nAPP2513253339								
Job Number: 03A2270099								
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Israel Estrella	Method: Hand Auger
Coordinates: 32.254826, -104.043221				Hole Diameter: 3"			Total Depth: 7 FT.	
Comments: Field screening conducted with HACH Chloride Test Strips and Petrofslg® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. TPH field screen readings exceed Site Criteria are indicative of biological matter within the soil sample. 40% correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	>3414	208	N	BG03	0	0		
M	3,414		N	BG03	1	1		
M	1,232		N	BG03	2	2	SM	Silty Sand - Medium to Light Brown, Fine to Very Fine w/ trace gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	1,233		N	BG03	3	3		
M	1,290		N	BG03	4	4		
M	717		N	BG03	5	5	SW-SM	Sand with Silt - Medium to Light Brown, Fine to Very Fine w/ Trace Gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	534		N	BG03	6	6		
M	790		N	BG03	7	7		
Total Depth @ 7 feet bgs.								

 ENSOLUM							Sample Name: BG04	Date: 6/26/25
							Site Name: Ray State Slot 3 TB	
							Incident Number: nAPP2513253339	
							Job Number: 03A2270099	
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Israel Estrella	Method: Hand Auger
Coordinates: 32.254997, -104.043037							Hole Diameter: 3"	Total Depth: 4 FT.
Comments: Field screening conducted with HACH Chloride Test Strips and Petrofslg® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included. TPH field screen readings exceed Site Criteria are indicative of biological matter within the soil sample. 40% correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	ND		N	BG04	0	0		
M	1,712		N	BG04	1	1	SM	Silty Sand - Medium to Light Brown, Fine to Very Fine w/ trace gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	2,241		N	BG04	2	2		
M	1,195		N	BG04	3	3	SW-SM	Sand with Silt - Medium to Light Brown, Fine to Very Fine w/ Trace Gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	ND	80	N	BG04	4	4		
Total Depth @ 4 feet bgs.								



APPENDIX C

Photographic Log



ENSOLUM

Photographic Log

Matador Production Company
Ray State Slot 3 TB
nAPP2513253339

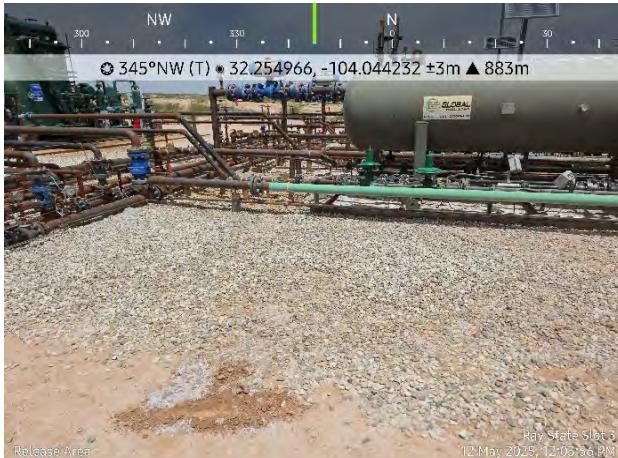


Photograph 1

Date: 5/19/2025

Description: Lease sign

View: Southeast

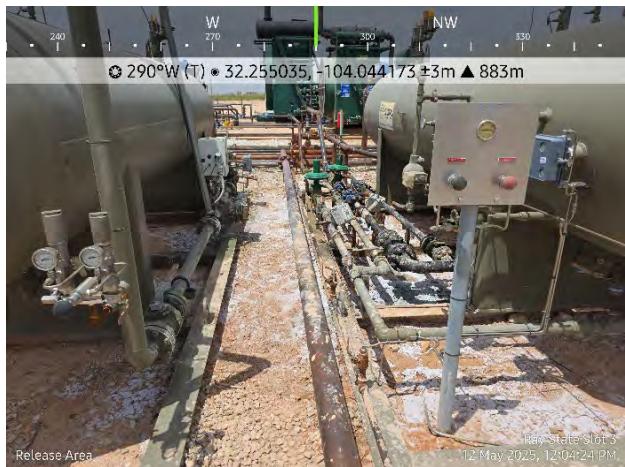


Photograph 2

Date: 5/12/2025

Description: Release Area

View: North

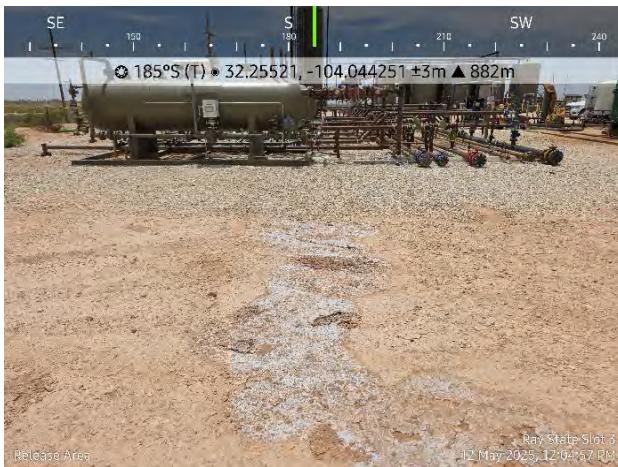


Photograph 3

Date: 5/12/2025

Description: Release Area

View: Northwest



Photograph 4

Date: 5/12/2025

Description: Release Area

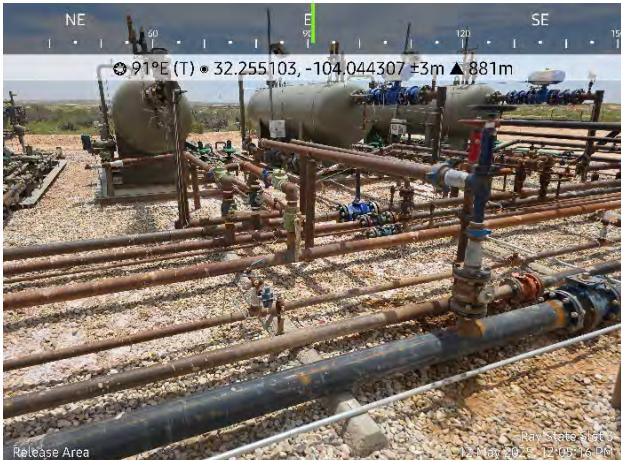
View: South



ENSOLUM

Photographic Log

Matador Production Company
Ray State Slot 3 TB
nAPP2513253339



Photograph 5
Description: Release Area
View: East

Date: 5/12/2025



Photograph 6
Description: SS03
View: Northeast

Date: 5/19/2025



Photograph 7
Description: SS07
View: Southwest

Date: 5/19/2025



Photograph 8
Description: SS01
View: West

Date: 5/20/2025



ENSOLUM

Photographic Log

Matador Production Company
Ray State Slot 3 TB
nAPP2513253339



Photograph 9
Description: BH01
View: Southeast

Date: 5/20/2025



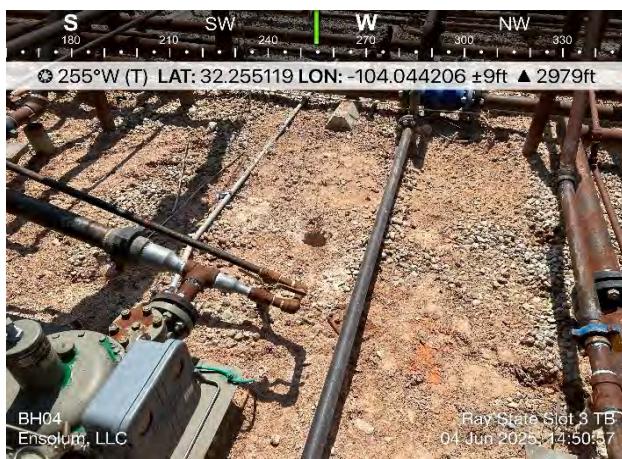
Photograph 10
Description: BH02
View: Southwest

Date: 6/4/2025



Photograph 11
Description: BH03
View: Northwest

Date: 6/4/2025



Photograph 12
Description: BH04
View: West

Date: 6/4/2025



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Photographic LogMatador Production Company
Ray State Slot 3 TB
nAPP2513253339



ENSOLUM

Photographic Log

Matador Production Company
Ray State Slot 3 TB
nAPP2513253339



Photograph 17
Description: Pad Overview
View: Southeast

Date: 9/12/2025



Photograph 18
Description: Pad Overview
View: South

Date: 9/12/2025



Photograph 19
Description: Pad Overview
View: Southwest

Date: 9/12/2025



Photograph 20
Description: Pad Overview
View: North

Date: 9/12/2025



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Ray State Slot 3 TB

Work Order: E505233

Job Number: 23003-0002

Received: 5/21/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/28/25

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

Date Reported: 5/28/25



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

Project Name: Ray State Slot 3 TB
Workorder: E505233
Date Received: 5/21/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/21/2025 8:00:00AM, under the Project Name: Ray State Slot 3 TB.

The analytical test results summarized in this report with the Project Name: Ray State Slot 3 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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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: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 05/28/25 10:04
---	--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS03-0'	E505233-01A	Soil	05/19/25	05/21/25	Glass Jar, 2 oz.
SS03-1'	E505233-02A	Soil	05/19/25	05/21/25	Glass Jar, 2 oz.
SS04-0'	E505233-03A	Soil	05/19/25	05/21/25	Glass Jar, 2 oz.
SS04-1'	E505233-04A	Soil	05/19/25	05/21/25	Glass Jar, 2 oz.
SS05-0'	E505233-05A	Soil	05/19/25	05/21/25	Glass Jar, 2 oz.
SS06-0'	E505233-06A	Soil	05/19/25	05/21/25	Glass Jar, 2 oz.
SS06-1'	E505233-07A	Soil	05/19/25	05/21/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/28/2025 10:04:29AM
---	---	-----------------------------------

SS03-0'

E505233-01

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2521088
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID	109 %	70-130		05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2521088
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	70-130		05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2521106
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/24/25	
Surrogate: n-Nonane	104 %	61-141		05/21/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2521133
Chloride	ND	20.0	1	05/23/25	05/23/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/28/2025 10:04:29AM
---	---	-----------------------------------

SS03-1'

E505233-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2521088
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>109 %</i>	<i>70-130</i>		<i>05/21/25</i>	<i>05/23/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2521088
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>100 %</i>	<i>70-130</i>		<i>05/21/25</i>	<i>05/23/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521106
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/24/25	
<i>Surrogate: n-Nonane</i>	<i>105 %</i>	<i>61-141</i>		<i>05/21/25</i>	<i>05/24/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2521133
Chloride	ND	20.0	1	05/23/25	05/23/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/28/2025 10:04:29AM
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SS04-0'

E505233-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2521088
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>108 %</i>	<i>70-130</i>		<i>05/21/25</i>	<i>05/23/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2521088
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>100 %</i>	<i>70-130</i>		<i>05/21/25</i>	<i>05/23/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521106
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/24/25	
<i>Surrogate: n-Nonane</i>	<i>105 %</i>	<i>61-141</i>		<i>05/21/25</i>	<i>05/24/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2521133
Chloride	ND	20.0	1	05/23/25	05/23/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/28/2025 10:04:29AM
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SS04-1'

E505233-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2521088
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>109 %</i>	<i>70-130</i>		<i>05/21/25</i>	<i>05/23/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2521088
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>101 %</i>	<i>70-130</i>		<i>05/21/25</i>	<i>05/23/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521106
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/24/25	
<i>Surrogate: n-Nonane</i>	<i>105 %</i>	<i>61-141</i>		<i>05/21/25</i>	<i>05/24/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2521133
Chloride	ND	20.0	1	05/23/25	05/23/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/28/2025 10:04:29AM
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SS05-0'

E505233-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2521088
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>109 %</i>	<i>70-130</i>		<i>05/21/25</i>	<i>05/23/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2521088
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>101 %</i>	<i>70-130</i>		<i>05/21/25</i>	<i>05/23/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521106
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/24/25	
<i>Surrogate: n-Nonane</i>	<i>102 %</i>	<i>61-141</i>		<i>05/21/25</i>	<i>05/24/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2521133
Chloride	360	100	5	05/23/25	05/23/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/28/2025 10:04:29AM
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SS06-0'

E505233-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2521088
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>109 %</i>	<i>70-130</i>		<i>05/21/25</i>	<i>05/23/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2521088
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>101 %</i>	<i>70-130</i>		<i>05/21/25</i>	<i>05/23/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521106
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/24/25	
<i>Surrogate: n-Nonane</i>	<i>105 %</i>	<i>61-141</i>		<i>05/21/25</i>	<i>05/24/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2521133
Chloride	ND	40.0	2	05/23/25	05/23/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/28/2025 10:04:29AM
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SS06-1'

E505233-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2521088
Benzene	ND	0.0250	1	05/21/25	05/23/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/23/25	
Toluene	ND	0.0250	1	05/21/25	05/23/25	
o-Xylene	ND	0.0250	1	05/21/25	05/23/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/23/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/23/25	
Surrogate: 4-Bromochlorobenzene-PID	108 %	70-130		05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2521088
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	100 %	70-130		05/21/25	05/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521106
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/24/25	
Surrogate: n-Nonane	98.4 %	61-141		05/21/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2521133
Chloride	28.3	20.0	1	05/23/25	05/23/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 5/28/2025 10:04:29AM
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Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2521088-BLK1)

Prepared: 05/21/25 Analyzed: 05/23/25

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

8.35 8.00 104 70-130

LCS (2521088-BS1)

Prepared: 05/21/25 Analyzed: 05/23/25

Benzene	4.81	0.0250	5.00	96.3	70-130				
Ethylbenzene	4.76	0.0250	5.00	95.2	70-130				
Toluene	4.81	0.0250	5.00	96.2	70-130				
o-Xylene	4.68	0.0250	5.00	93.7	70-130				
p,m-Xylene	9.59	0.0500	10.0	95.9	70-130				
Total Xylenes	14.3	0.0250	15.0	95.2	70-130				

Surrogate: 4-Bromochlorobenzene-PID

8.65 8.00 108 70-130

Matrix Spike (2521088-MS1)

Source: E505233-06

Prepared: 05/21/25 Analyzed: 05/23/25

Benzene	5.32	0.0250	5.00	ND	106	70-130			
Ethylbenzene	5.23	0.0250	5.00	ND	105	70-130			
Toluene	5.30	0.0250	5.00	ND	106	70-130			
o-Xylene	5.16	0.0250	5.00	ND	103	70-130			
p,m-Xylene	10.5	0.0500	10.0	ND	105	70-130			
Total Xylenes	15.7	0.0250	15.0	ND	104	70-130			

Surrogate: 4-Bromochlorobenzene-PID

8.62 8.00 108 70-130

Matrix Spike Dup (2521088-MSD1)

Source: E505233-06

Prepared: 05/21/25 Analyzed: 05/23/25

Benzene	5.55	0.0250	5.00	ND	111	70-130	4.31	27	
Ethylbenzene	5.47	0.0250	5.00	ND	109	70-130	4.41	26	
Toluene	5.54	0.0250	5.00	ND	111	70-130	4.38	20	
o-Xylene	5.40	0.0250	5.00	ND	108	70-130	4.43	25	
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130	4.42	23	
Total Xylenes	16.4	0.0250	15.0	ND	109	70-130	4.42	26	

Surrogate: 4-Bromochlorobenzene-PID

8.62 8.00 108 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 5/28/2025 10:04:29AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD	RPD Limit	Notes
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Blank (2521088-BLK1)

Prepared: 05/21/25 Analyzed: 05/23/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130		

LCS (2521088-BS2)

Prepared: 05/21/25 Analyzed: 05/23/25

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	88.5	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.21		8.00	103	70-130		

Matrix Spike (2521088-MS2)

Source: E505233-06

Prepared: 05/21/25 Analyzed: 05/23/25

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		8.00	103	70-130			

Matrix Spike Dup (2521088-MSD2)

Source: E505233-06

Prepared: 05/21/25 Analyzed: 05/23/25

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	90.9	70-130	3.54	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.19		8.00	102	70-130			

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 5/28/2025 10:04:29AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2521106-BLK1)

Prepared: 05/21/25 Analyzed: 05/23/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	53.6		50.0		107	61-141		

LCS (2521106-BS1)

Prepared: 05/21/25 Analyzed: 05/24/25

Diesel Range Organics (C10-C28)	248	25.0	250	99.2	66-144			
Surrogate: n-Nonane	50.2		50.0	100	61-141			

Matrix Spike (2521106-MS1)

Source: E505231-03 Prepared: 05/21/25 Analyzed: 05/24/25

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	56-156		
Surrogate: n-Nonane	49.0		50.0		98.0	61-141		

Matrix Spike Dup (2521106-MSD1)

Source: E505231-03 Prepared: 05/21/25 Analyzed: 05/24/25

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156	3.82	20
Surrogate: n-Nonane	50.7		50.0		101	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/28/2025 10:04:29AM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521133-BLK1)

Prepared: 05/23/25 Analyzed: 05/23/25

Chloride	ND	20.0
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LCS (2521133-BS1)

Prepared: 05/23/25 Analyzed: 05/23/25

Chloride	254	20.0	250	102	90-110
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Matrix Spike (2521133-MS1)

Source: E505231-03 Prepared: 05/23/25 Analyzed: 05/23/25

Chloride	257	20.0	250	ND	103	80-120
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Matrix Spike Dup (2521133-MSD1)

Source: E505231-03 Prepared: 05/23/25 Analyzed: 05/23/25

Chloride	257	20.0	250	ND	103	80-120	0.0836	20
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/28/25 10:04
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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.



Client Information				Invoice Information				Lab Use Only			TAT		State						
								Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Client: Matador Production Company				Company: Ensolum LLC				E505233	230030002				x						
Project Name: PlayState Slot 3 TB				Address: 3122 National Parks Hwy															
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:															
Sample Information												Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	Field	Lab	Field	Method	Lab	Field	SDWA	CWA	RCRA		
0905	SHAPES	Soil	1	SS03-0'				1				RCRA 8 Matrix	RCRA 8 Matrix	SDOC-NM	SDOC-TX	SDOC-1X	Sample Name	Remarks	
1333			1	03-1'				2				OC by 8269	OC by 8269	OC by 8269	OC by 8269	OC by 8269	Temp	Y or N	
0907			1	04-0'				3				OC by 8269	OC by 8269	OC by 8269	OC by 8269	OC by 8269	Temp	Y or N	
1337			1	04-1'				4				OC by 8269	OC by 8269	OC by 8269	OC by 8269	OC by 8269	Temp	Y or N	
0910			1	05-0'				5				OC by 8269	OC by 8269	OC by 8269	OC by 8269	OC by 8269	Temp	Y or N	
0917			1	06-0'				6				OC by 8269	OC by 8269	OC by 8269	OC by 8269	OC by 8269	Temp	Y or N	
1408			1	06-1'				7				OC by 8269	OC by 8269	OC by 8269	OC by 8269	OC by 8269	Temp	Y or N	
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jhinkle@ensolum.com, akone@ensolum.com, jgonzales@ensolum.com, rrai@ensolum.com, oaderinto@ensolum.com												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.							
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.												Lab Use Only							
Sampled by: <u>Jenna Hinckle</u>												Received on ice: <input checked="" type="checkbox"/> Y/N							
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 on ice at a temp above 0 but less than 6°C on subsequent days.									
<u>Jenna Hinckle</u>		5-20-25	1700	<u>Lauren Parker</u>				5-20-25	1700										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)				Date	Time										
<u>Lauren Parker</u>		5-20-25	1700	<u>J. M.</u>				5-20-25	1600										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)				Date	Time										
<u>J. M.</u>		5-20-25	2230	<u>Caitlynn</u>				5-21-25	800										
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

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/21/25 08:00	Work Order ID:	E505233
Phone:	(972) 371-5200	Date Logged In:	05/20/25 15:19	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	05/28/25 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 Carrier: Courier
 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.

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? Yes
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Comments/Resolution**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 3 TB

Work Order: E505239

Job Number: 23003-0002

Received: 5/21/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/28/25

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



Date Reported: 5/28/25



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

Project Name: Ray State Slot 3 TB
Workorder: E505239
Date Received: 5/21/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/21/2025 8:00:00AM, under the Project Name: Ray State Slot 3 TB.

The analytical test results summarized in this report with the Project Name: Ray State Slot 3 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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
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Client Representative
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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: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 05/28/25 16:17
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS07-1'	E505239-01A	Soil	05/19/25	05/21/25	Glass Jar, 2 oz.
SS07-0'	E505239-02A	Soil	05/19/25	05/21/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/28/2025 4:17:30PM
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SS07-1'

E505239-01

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2521087
Benzene	ND	0.0250	1	05/21/25	05/28/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/28/25	
Toluene	ND	0.0250	1	05/21/25	05/28/25	
o-Xylene	ND	0.0250	1	05/21/25	05/28/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/28/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/28/25	
Surrogate: Bromofluorobenzene	92.9 %	70-130		05/21/25	05/28/25	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		05/21/25	05/28/25	
Surrogate: Toluene-d8	97.6 %	70-130		05/21/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2521087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/28/25	
Surrogate: Bromofluorobenzene	92.9 %	70-130		05/21/25	05/28/25	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		05/21/25	05/28/25	
Surrogate: Toluene-d8	97.6 %	70-130		05/21/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2521077
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/27/25	
Surrogate: n-Nonane	108 %	61-141		05/21/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2521134
Chloride	ND	100	5	05/23/25	05/23/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/28/2025 4:17:30PM
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SS07-0'

E505239-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2521087
Benzene	ND	0.0250	1	05/21/25	05/28/25	
Ethylbenzene	ND	0.0250	1	05/21/25	05/28/25	
Toluene	ND	0.0250	1	05/21/25	05/28/25	
o-Xylene	ND	0.0250	1	05/21/25	05/28/25	
p,m-Xylene	ND	0.0500	1	05/21/25	05/28/25	
Total Xylenes	ND	0.0250	1	05/21/25	05/28/25	
<i>Surrogate: Bromofluorobenzene</i>	106 %	70-130		05/21/25	05/28/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130		05/21/25	05/28/25	
<i>Surrogate: Toluene-d8</i>	99.0 %	70-130		05/21/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2521087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/21/25	05/28/25	
<i>Surrogate: Bromofluorobenzene</i>	106 %	70-130		05/21/25	05/28/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130		05/21/25	05/28/25	
<i>Surrogate: Toluene-d8</i>	99.0 %	70-130		05/21/25	05/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521077
Diesel Range Organics (C10-C28)	ND	25.0	1	05/21/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/21/25	05/27/25	
<i>Surrogate: n-Nonane</i>	110 %	61-141		05/21/25	05/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2521134
Chloride	ND	100	5	05/23/25	05/23/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/28/2025 4:17:30PM
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Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit	Notes
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Blank (2521087-BLK1)

Prepared: 05/21/25 Analyzed: 05/23/25

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							
<i>Surrogate: Bromofluorobenzene</i>	0.488		0.500		97.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.484		0.500		96.8	70-130			
<i>Surrogate: Toluene-d8</i>	0.512		0.500		102	70-130			

LCS (2521087-BS1)

Prepared: 05/21/25 Analyzed: 05/23/25

Benzene	2.42	0.0250	2.50		96.8	70-130			
Ethylbenzene	2.43	0.0250	2.50		97.1	70-130			
Toluene	2.33	0.0250	2.50		93.3	70-130			
o-Xylene	2.33	0.0250	2.50		93.2	70-130			
p,m-Xylene	4.71	0.0500	5.00		94.2	70-130			
Total Xylenes	7.04	0.0250	7.50		93.9	70-130			
<i>Surrogate: Bromofluorobenzene</i>	0.504		0.500		101	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.510		0.500		102	70-130			
<i>Surrogate: Toluene-d8</i>	0.494		0.500		98.8	70-130			

Matrix Spike (2521087-MS1)

Source: E505231-09

Prepared: 05/21/25 Analyzed: 05/23/25

Benzene	2.48	0.0250	2.50	ND	99.1	48-131			
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135			
Toluene	2.48	0.0250	2.50	ND	99.4	48-130			
o-Xylene	2.29	0.0250	2.50	ND	91.7	43-135			
p,m-Xylene	4.64	0.0500	5.00	ND	92.9	43-135			
Total Xylenes	6.94	0.0250	7.50	ND	92.5	43-135			
<i>Surrogate: Bromofluorobenzene</i>	0.481		0.500		96.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.511		0.500		102	70-130			
<i>Surrogate: Toluene-d8</i>	0.513		0.500		103	70-130			

Matrix Spike Dup (2521087-MSD1)

Source: E505231-09

Prepared: 05/21/25 Analyzed: 05/23/25

Benzene	2.45	0.0250	2.50	ND	98.1	48-131	1.01	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.8	45-135	1.79	27	
Toluene	2.45	0.0250	2.50	ND	97.8	48-130	1.56	24	
o-Xylene	2.29	0.0250	2.50	ND	91.7	43-135	0.0436	27	
p,m-Xylene	4.65	0.0500	5.00	ND	92.9	43-135	0.0646	27	
Total Xylenes	6.94	0.0250	7.50	ND	92.5	43-135	0.0288	27	
<i>Surrogate: Bromofluorobenzene</i>	0.490		0.500		97.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.498		0.500		99.6	70-130			
<i>Surrogate: Toluene-d8</i>	0.517		0.500		103	70-130			

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 5/28/2025 4:17:30PM
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Nonhalogenated Organics by EPA 8015D - GRO

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 (2521087-BLK1)

Prepared: 05/21/25 Analyzed: 05/23/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

LCS (2521087-BS2)

Prepared: 05/21/25 Analyzed: 05/23/25

Gasoline Range Organics (C6-C10)	52.7	20.0	50.0	105	70-130				
Surrogate: Bromofluorobenzene	0.501		0.500	100	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500	101	70-130				
Surrogate: Toluene-d8	0.524		0.500	105	70-130				

Matrix Spike (2521087-MS2)

Source: E505231-09

Prepared: 05/21/25 Analyzed: 05/23/25

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

Matrix Spike Dup (2521087-MSD2)

Source: E505231-09

Prepared: 05/21/25 Analyzed: 05/23/25

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130	3.08	20	
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 5/28/2025 4:17:30PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2521077-BLK1)

Prepared: 05/21/25 Analyzed: 05/27/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	55.2		50.0		110	61-141		

LCS (2521077-BS1)

Prepared: 05/21/25 Analyzed: 05/27/25

Diesel Range Organics (C10-C28)	291	25.0	250		116	66-144		
Surrogate: n-Nonane	51.3		50.0		103	61-141		

Matrix Spike (2521077-MS1)

Source: E505238-02

Prepared: 05/21/25 Analyzed: 05/27/25

Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	56-156		
Surrogate: n-Nonane	55.5		50.0		111	61-141		

Matrix Spike Dup (2521077-MSD1)

Source: E505238-02

Prepared: 05/21/25 Analyzed: 05/27/25

Diesel Range Organics (C10-C28)	308	25.0	250	ND	123	56-156	3.33	20
Surrogate: n-Nonane	56.5		50.0		113	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/28/2025 4:17:30PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521134-BLK1)

Prepared: 05/23/25 Analyzed: 05/23/25

Chloride	ND	20.0
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LCS (2521134-BS1)

Prepared: 05/23/25 Analyzed: 05/23/25

Chloride	253	20.0	250	101	90-110
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Matrix Spike (2521134-MS1)

Source: E505234-04 Prepared: 05/23/25 Analyzed: 05/23/25

Chloride	345	20.0	250	86.8	103	80-120
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Matrix Spike Dup (2521134-MSD1)

Source: E505234-04 Prepared: 05/23/25 Analyzed: 05/23/25

Chloride	335	20.0	250	86.8	99.2	80-120	2.87	20
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/28/25 16:17
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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.

Envirotech Analytical Laboratory

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/21/25 08:00	Work Order ID:	E505239
Phone:	(972) 371-5200	Date Logged In:	05/20/25 15:36	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	05/28/25 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 Carrier: Courier
 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.

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? Yes
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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
---	------

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 3 TB

Work Order: E505247

Job Number: 23003-0002

Received: 5/22/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/29/25

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



Date Reported: 5/29/25



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

Project Name: Ray State Slot 3 TB
Workorder: E505247
Date Received: 5/22/2025 6:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/22/2025 6:45:00AM, under the Project Name: Ray State Slot 3 TB.

The analytical test results summarized in this report with the Project Name: Ray State Slot 3 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 05/29/25 10:48
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E505247-01A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
SS01-1'	E505247-02A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
SS02-0'	E505247-03A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
SS02-1'	E505247-04A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
SS08-0'	E505247-05A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
SS08-1'	E505247-06A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH01-0'	E505247-07A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH01-1'	E505247-08A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.
BH01-2'	E505247-09A	Soil	05/20/25	05/22/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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SS01-0'**E505247-01**

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID	89.3 %	70-130		05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521144
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane	113 %	61-141		05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2521137
Chloride	230	20.0	1	05/23/25	05/23/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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SS01-1'

E505247-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID	88.8 %	70-130		05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.2 %	70-130		05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521144
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane	115 %	61-141		05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2521137
Chloride	387	20.0	1	05/23/25	05/23/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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SS02-0'

E505247-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID	88.4 %	70-130		05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.4 %	70-130		05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521144
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane	117 %	61-141		05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2521137
Chloride	ND	20.0	1	05/23/25	05/23/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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SS02-1'

E505247-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID	88.9 %	70-130		05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.5 %	70-130		05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521144
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane	119 %	61-141		05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2521137
Chloride	244	20.0	1	05/23/25	05/24/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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SS08-0'

E505247-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		90.1 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521144
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane		113 %	61-141	05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2521137
Chloride	61.5	20.0	1	05/23/25	05/24/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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SS08-1'

E505247-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID	90.9 %	70-130		05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.1 %	70-130		05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521144
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane	114 %	61-141		05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2521137
Chloride	261	20.0	1	05/23/25	05/24/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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BH01-0'**E505247-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID	89.0 %	70-130		05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.5 %	70-130		05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521144
Diesel Range Organics (C10-C28)	135	25.0	1	05/23/25	05/23/25	
Oil Range Organics (C28-C36)	157	50.0	1	05/23/25	05/23/25	
Surrogate: n-Nonane	113 %	61-141		05/23/25	05/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2521137
Chloride	11900	200	10	05/23/25	05/24/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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BH01-1'**E505247-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521144
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25	
Surrogate: n-Nonane		120 %	61-141	05/23/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2521137
Chloride	74.2	20.0	1	05/23/25	05/24/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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BH01-2'**E505247-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Benzene	ND	0.0250	1	05/22/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/22/25	05/24/25	
Toluene	ND	0.0250	1	05/22/25	05/24/25	
o-Xylene	ND	0.0250	1	05/22/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/22/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/22/25	05/24/25	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2521114
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/25	05/24/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.0 %	70-130	05/22/25	05/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2521144
Diesel Range Organics (C10-C28)	ND	25.0	1	05/23/25	05/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/23/25	05/24/25	
Surrogate: n-Nonane		119 %	61-141	05/23/25	05/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2521137
Chloride	931	20.0	1	05/23/25	05/24/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2521114-BLK1)

Prepared: 05/22/25 Analyzed: 05/24/25

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

6.99 8.00 87.4 70-130

LCS (2521114-BS1)

Prepared: 05/22/25 Analyzed: 05/24/25

Benzene	4.30	0.0250	5.00	86.1	70-130				
Ethylbenzene	4.40	0.0250	5.00	88.0	70-130				
Toluene	4.41	0.0250	5.00	88.2	70-130				
o-Xylene	4.36	0.0250	5.00	87.2	70-130				
p,m-Xylene	8.93	0.0500	10.0	89.3	70-130				
Total Xylenes	13.3	0.0250	15.0	88.6	70-130				

Surrogate: 4-Bromochlorobenzene-PID

7.13 8.00 89.2 70-130

Matrix Spike (2521114-MS1)

Source: E505247-07

Prepared: 05/22/25 Analyzed: 05/24/25

Benzene	5.55	0.0250	5.00	ND	111	70-130			
Ethylbenzene	5.63	0.0250	5.00	ND	113	70-130			
Toluene	5.67	0.0250	5.00	ND	113	70-130			
o-Xylene	5.59	0.0250	5.00	ND	112	70-130			
p,m-Xylene	11.3	0.0500	10.0	ND	113	70-130			
Total Xylenes	16.9	0.0250	15.0	ND	113	70-130			

Surrogate: 4-Bromochlorobenzene-PID

7.02 8.00 87.8 70-130

Matrix Spike Dup (2521114-MSD1)

Source: E505247-07

Prepared: 05/22/25 Analyzed: 05/24/25

Benzene	5.21	0.0250	5.00	ND	104	70-130	6.28	27	
Ethylbenzene	5.35	0.0250	5.00	ND	107	70-130	5.26	26	
Toluene	5.34	0.0250	5.00	ND	107	70-130	5.95	20	
o-Xylene	5.29	0.0250	5.00	ND	106	70-130	5.53	25	
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130	4.84	23	
Total Xylenes	16.1	0.0250	15.0	ND	107	70-130	5.07	26	

Surrogate: 4-Bromochlorobenzene-PID

7.05 8.00 88.1 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2521114-BLK1)

Prepared: 05/22/25 Analyzed: 05/24/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.9	70-130		

LCS (2521114-BS2)

Prepared: 05/22/25 Analyzed: 05/27/25

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0		97.1	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.7	70-130		

Matrix Spike (2521114-MS2)

Source: E505247-07

Prepared: 05/22/25 Analyzed: 05/24/25

Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.5	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130		

Matrix Spike Dup (2521114-MSD2)

Source: E505247-07

Prepared: 05/22/25 Analyzed: 05/24/25

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0	ND	85.8	70-130	8.62	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.9	70-130		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2521144-BLK1)

Prepared: 05/23/25 Analyzed: 05/23/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	57.0		50.0		114	61-141		

LCS (2521144-BS1)

Prepared: 05/23/25 Analyzed: 05/23/25

Diesel Range Organics (C10-C28)	302	25.0	250		121	66-144		
Surrogate: n-Nonane	55.3		50.0		111	61-141		

Matrix Spike (2521144-MS1)

Source: E505247-03 Prepared: 05/23/25 Analyzed: 05/23/25

Diesel Range Organics (C10-C28)	319	25.0	250	ND	127	56-156		
Surrogate: n-Nonane	59.7		50.0		119	61-141		

Matrix Spike Dup (2521144-MSD1)

Source: E505247-03 Prepared: 05/23/25 Analyzed: 05/23/25

Diesel Range Organics (C10-C28)	335	25.0	250	ND	134	56-156	4.98	20
Surrogate: n-Nonane	58.4		50.0		117	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/29/2025 10:48:30AM
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Anions by EPA 300.0/9056A

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
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Blank (2521137-BLK1)

Prepared: 05/23/25 Analyzed: 05/23/25

Chloride	ND	20.0
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LCS (2521137-BS1)

Prepared: 05/23/25 Analyzed: 05/23/25

Chloride	259	20.0	250	103	90-110
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Matrix Spike (2521137-MS1)

Source: E505247-03 Prepared: 05/23/25 Analyzed: 05/23/25

Chloride	272	20.0	250	ND	109	80-120
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Matrix Spike Dup (2521137-MSD1)

Source: E505247-03 Prepared: 05/23/25 Analyzed: 05/23/25

Chloride	273	20.0	250	ND	109	80-120	0.341	20
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/29/25 10:48
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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.



Client Information				Invoice Information				Lab Use Only		TAT		State							
								Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Client: Matador Production Company				Company: Ensolum LLC				E 505247	2303-0002				x						
Project Name: Day State Site 3 TRB				Address: 3122 National Parks Hwy															
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:															
Sample Information												Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	Filter	Field	DR/DO/DO by 8105	Sample	Temp	Sample	SDWA	CWA	RCRA		
1311	5/21/25	Soil	1	SS01-0'				1				+							
1315				01-1'				2				+							
1008				02-0'				3				+							
1014				02-1'				4				+							
1017				08-0'				5				+							
1023				08-1'				6				+							
1450				BH01-0'				7				+							
1502				01-1'				8				+							
1504	↓	↓	↓	01-2'				9				+							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jhinkle@ensolum.com, akone@ensolum.com, igoonzales@ensolum.com, rrai@ensolum.com, oaderinto@ensolum.com												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.							
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.												Lab Use Only							
Sampled by: <u>Jenna Hinkle</u>												Received on ice: <u>Y/N</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 on ice at a temp above 0 but less than 6°C on subsequent days.													
<u>Jenna Hinkle</u>	5/21/25	6:57	<u>Michelle Gonzales</u>	5.21.25	0657														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
<u>Michelle Gonzales</u>	5.21.25	1615	<u>Leanne Ell.</u>	5.21.25	1645														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
<u>C. Hinkle</u>	5.21.25	2300	<u>Carrie Moore</u>	5.22.25	1045														
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

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 05/22/25 06:45	Work Order ID: E505247
Phone: (972) 371-5200	Date Logged In: 05/21/25 14:33	Logged In By: Caitlin Mars
Email: agiovengo@ensolum.com	Due Date: 05/29/25 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 Carrier: Courier
 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.

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? Yes
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Comments/Resolution**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 3 TB

Work Order: E506035

Job Number: 23003-0002

Received: 6/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/12/25

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



Date Reported: 6/12/25



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

Project Name: Ray State Slot 3 TB
Workorder: E506035
Date Received: 6/6/2025 6:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/6/2025 6:45:00AM, under the Project Name: Ray State Slot 3 TB.

The analytical test results summarized in this report with the Project Name: Ray State Slot 3 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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
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rainaschwanz@envirotech-inc.com

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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: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 06/12/25 08:52
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-3'	E506035-01A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH02-0'	E506035-02A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH02-2'	E506035-03A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH02-4'	E506035-04A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH02-6'	E506035-05A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH02-8'	E506035-06A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH03-0'	E506035-07A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH03-2'	E506035-08A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH03-4'	E506035-09A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH03-6'	E506035-10A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH03-7'	E506035-11A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH04-0'	E506035-12A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH04-2'	E506035-13A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH04-4'	E506035-14A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH04-6'	E506035-15A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH04-6.5'	E506035-16A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH01-3'**E506035-01**

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	ND	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/06/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	104 %	70-130		06/06/25	06/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.9 %	70-130		06/06/25	06/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
<i>Surrogate: n-Nonane</i>	104 %	61-141		06/06/25	06/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2523152
Chloride	1150	20.0	1	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH02-0'**E506035-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	ND	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/06/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>108 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>86.0 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
<i>Surrogate: n-Nonane</i>	<i>104 %</i>	<i>61-141</i>		<i>06/06/25</i>	<i>06/07/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	12300	400	20	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH02-2'**E506035-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	ND	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/06/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/06/25	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130		06/06/25	06/06/25
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.8 %	70-130		06/06/25	06/06/25
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
Surrogate: n-Nonane		110 %	61-141		06/06/25	06/07/25
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	485	20.0	1	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH02-4'**E506035-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	ND	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/06/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>105 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>91.2 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
<i>Surrogate: n-Nonane</i>	<i>103 %</i>	<i>61-141</i>		<i>06/06/25</i>	<i>06/07/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	1910	40.0	2	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH02-6'**E506035-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	ND	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/06/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/06/25	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		06/06/25	06/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.3 %	70-130		06/06/25	06/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
Surrogate: n-Nonane	104 %	61-141		06/06/25	06/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	2690	20.0	1	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH02-8'**E506035-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	ND	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/06/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>105 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>94.8 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
<i>Surrogate: n-Nonane</i>	<i>104 %</i>	<i>61-141</i>		<i>06/06/25</i>	<i>06/07/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	2160	20.0	1	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH03-0'**E506035-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	ND	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/06/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>103 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>90.3 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
<i>Surrogate: n-Nonane</i>	<i>103 %</i>	<i>61-141</i>		<i>06/06/25</i>	<i>06/07/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	14100	400	20	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH03-2'**E506035-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	ND	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/06/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/06/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130		06/06/25	06/06/25
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130		06/06/25	06/06/25
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
Surrogate: n-Nonane		104 %	61-141		06/06/25	06/07/25
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	7940	200	10	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH03-4'**E506035-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	ND	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/06/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>105 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>90.9 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
<i>Surrogate: n-Nonane</i>	<i>107 %</i>	<i>61-141</i>		<i>06/06/25</i>	<i>06/07/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	714	20.0	1	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH03-6'**E506035-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	ND	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/06/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>105 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>92.0 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
<i>Surrogate: n-Nonane</i>	<i>105 %</i>	<i>61-141</i>		<i>06/06/25</i>	<i>06/07/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	1580	20.0	1	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH03-7'**E506035-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	ND	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/06/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/06/25	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130		06/06/25	06/06/25
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	70-130		06/06/25	06/06/25
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
Surrogate: n-Nonane		108 %	61-141		06/06/25	06/07/25
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	1340	200	10	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH04-0'**E506035-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	0.0809	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	0.0832	0.0500	1	06/06/25	06/06/25	
Total Xylenes	0.164	0.0250	1	06/06/25	06/06/25	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	06/06/25	06/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	06/06/25	06/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	1850	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	457	50.0	1	06/06/25	06/07/25	
Surrogate: n-Nonane		107 %	61-141	06/06/25	06/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	36500	1000	50	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH04-2'**E506035-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/06/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/06/25	
Toluene	ND	0.0250	1	06/06/25	06/06/25	
o-Xylene	ND	0.0250	1	06/06/25	06/06/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/06/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>103 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>87.0 %</i>	<i>70-130</i>		<i>06/06/25</i>	<i>06/06/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
<i>Surrogate: n-Nonane</i>	<i>107 %</i>	<i>61-141</i>		<i>06/06/25</i>	<i>06/07/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	6470	200	10	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH04-4'**E506035-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/07/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/07/25	
Toluene	ND	0.0250	1	06/06/25	06/07/25	
o-Xylene	ND	0.0250	1	06/06/25	06/07/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/07/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/07/25	
Surrogate: 4-Bromochlorobenzene-PID	109 %	70-130		06/06/25	06/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.5 %	70-130		06/06/25	06/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
Surrogate: n-Nonane	105 %	61-141		06/06/25	06/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	1540	20.0	1	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH04-6'**E506035-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/07/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/07/25	
Toluene	ND	0.0250	1	06/06/25	06/07/25	
o-Xylene	ND	0.0250	1	06/06/25	06/07/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/07/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/07/25	
Surrogate: 4-Bromochlorobenzene-PID	104 %	70-130		06/06/25	06/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.2 %	70-130		06/06/25	06/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
Surrogate: n-Nonane	103 %	61-141		06/06/25	06/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	1140	20.0	1	06/06/25	06/07/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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BH04-6.5'**E506035-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Benzene	ND	0.0250	1	06/06/25	06/07/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/07/25	
Toluene	ND	0.0250	1	06/06/25	06/07/25	
o-Xylene	ND	0.0250	1	06/06/25	06/07/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/07/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/07/25	
Surrogate: 4-Bromochlorobenzene-PID	106 %	70-130		06/06/25	06/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2523144
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.2 %	70-130		06/06/25	06/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2523138
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/07/25	
Surrogate: n-Nonane	103 %	61-141		06/06/25	06/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2523152
Chloride	665	20.0	1	06/06/25	06/07/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2523144-BLK1)

Prepared: 06/06/25 Analyzed: 06/06/25

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

8.29 8.00 104 70-130

LCS (2523144-BS1)

Prepared: 06/06/25 Analyzed: 06/06/25

Benzene	4.53	0.0250	5.00	90.6	70-130				
Ethylbenzene	4.55	0.0250	5.00	91.0	70-130				
Toluene	4.50	0.0250	5.00	90.1	70-130				
o-Xylene	4.56	0.0250	5.00	91.2	70-130				
p,m-Xylene	8.91	0.0500	10.0	89.1	70-130				
Total Xylenes	13.5	0.0250	15.0	89.8	70-130				

Surrogate: 4-Bromochlorobenzene-PID

8.42 8.00 105 70-130

Matrix Spike (2523144-MS1)

Source: E506035-08

Prepared: 06/06/25 Analyzed: 06/06/25

Benzene	4.90	0.0250	5.00	ND	97.9	70-130			
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	70-130			
Toluene	4.87	0.0250	5.00	ND	97.4	70-130			
o-Xylene	4.89	0.0250	5.00	ND	97.9	70-130			
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	70-130			
Total Xylenes	14.5	0.0250	15.0	ND	96.7	70-130			

Surrogate: 4-Bromochlorobenzene-PID

8.21 8.00 103 70-130

Matrix Spike Dup (2523144-MSD1)

Source: E506035-08

Prepared: 06/06/25 Analyzed: 06/06/25

Benzene	4.89	0.0250	5.00	ND	97.7	70-130	0.208	27	
Ethylbenzene	4.91	0.0250	5.00	ND	98.1	70-130	0.122	26	
Toluene	4.86	0.0250	5.00	ND	97.1	70-130	0.231	20	
o-Xylene	4.89	0.0250	5.00	ND	97.7	70-130	0.168	25	
p,m-Xylene	9.60	0.0500	10.0	ND	96.0	70-130	0.201	23	
Total Xylenes	14.5	0.0250	15.0	ND	96.5	70-130	0.190	26	

Surrogate: 4-Bromochlorobenzene-PID

8.48 8.00 106 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD	RPD Limit	Notes
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Blank (2523144-BLK1)

Prepared: 06/06/25 Analyzed: 06/06/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.8	70-130		

LCS (2523144-BS2)

Prepared: 06/06/25 Analyzed: 06/06/25

Gasoline Range Organics (C6-C10)	36.8	20.0	50.0		73.7	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130		

Matrix Spike (2523144-MS2)

Source: E506035-08

Prepared: 06/06/25 Analyzed: 06/06/25

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130		

Matrix Spike Dup (2523144-MSD2)

Source: E506035-08

Prepared: 06/06/25 Analyzed: 06/06/25

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0	ND	101	70-130	0.219	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	70-130		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2523138-BLK1)

Prepared: 06/06/25 Analyzed: 06/07/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	53.0		50.0		106	61-141		

LCS (2523138-BS1)

Prepared: 06/06/25 Analyzed: 06/07/25

Diesel Range Organics (C10-C28)	282	25.0	250		113	66-144		
Surrogate: n-Nonane	51.8		50.0		104	61-141		

Matrix Spike (2523138-MS1)

Source: E506035-05 Prepared: 06/06/25 Analyzed: 06/07/25

Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	56-156		
Surrogate: n-Nonane	53.3		50.0		107	61-141		

Matrix Spike Dup (2523138-MSD1)

Source: E506035-05 Prepared: 06/06/25 Analyzed: 06/07/25

Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	56-156	0.391	20
Surrogate: n-Nonane	54.0		50.0		108	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2025 8:52:19AM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2523152-BLK1)

Prepared: 06/06/25 Analyzed: 06/07/25

Chloride	ND	20.0
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LCS (2523152-BS1)

Prepared: 06/06/25 Analyzed: 06/07/25

Chloride	250	20.0	250	100	90-110
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Matrix Spike (2523152-MS1)

Source: E506035-05 Prepared: 06/06/25 Analyzed: 06/07/25

Chloride	2920	20.0	250	2690	92.1	80-120
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Matrix Spike Dup (2523152-MSD1)

Source: E506035-05 Prepared: 06/06/25 Analyzed: 06/07/25

Chloride	2880	20.0	250	2690	76.3	80-120	1.36	20	M4
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/12/25 08:52
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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

Client Information					Invoice Information			Lab Use Only		TAT				State			
Client: Matador Production Company Project Name: Ray State Slot 3 TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com					Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:			Lab WO# E506035	Job Number 23003-0002	1D	2D	3D	Std	NM	CO	UT	TX
Analysis and Method										EPA Program							
DRC/8 Meets GR/DR/DO by 8015 GR/DR/DO by 8024 VOC by 260 TECA 105-X Chloride 3000 BTEX by 8024										SDWA	CWA	RCRA					
										Compliance	Y	or	N				
										PWSID #							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	Field	DR/DO/DO by 8015	RBC/8 Meets	BSPEC-NM	BSPEC-TX	Temp Sample	Remarks			
945	6/4/25	5011	1	BH01-3			1			X			3.9				
949			1	02-01			2			X			2.7				
958			1	02-2			3			X			2.9				
1252			1	02-4			4			X			4.4				
1326			1	02-6			5			X			2.3				
1408			1	02-7			6			X			2.1				
1000			1	03-0			7			X			4.0				
1012			1	03-2			8			X			3.9				
1255			1	03-4			9			X			4.4				
1334			1	03-6			10			X			4.8				
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmbir@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>Israel Estrella</u>																	
Relinquished by: (Signature) <u>CL DSG</u>	Date 6/5/25	Time 7:11	Received by: (Signature) <u>Michelle Gonzales</u>	Date 6-5-25	Time 0711	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.											
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date 6-5-25	Time 1615	Received by: (Signature) <u>h</u>	Date 6-5-25	Time 1615												
Relinquished by: (Signature) <u>h</u>	Date 6-5-25	Time 2330	Received by: (Signature) <u>Noe Soto</u>	Date 6-6-25	Time 0645												
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: <u>Y/N</u>											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 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	Project Name: Ray State Slot 3 TB	Project Manager: Ashley Giovengo	Address: 3122 National Parks Hwy	Company: Ensolum LLC	Address: 3122 National Parks Hwy	City, State, Zip: Carlsbad NM, 88220	Lab WO# ES06035	Job Number 23003-0002	1D	2D	3D	Std	NM	CO	UT	TX		
Address: 3122 National Parks Hwy	City, State, Zip: Carlsbad NM, 88220	Phone: 575-988-0055	Email: agiovengo@ensolum.com	Miscellaneous:									X					
Analysis and Method																		
EPA Program																		
SDWA CWA RCRA																		
Compliance Y or N																		
PWSID #																		
Sample Information																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	GR/DO/DR/DO by 8015	BR/DO/DO by 8015	RCRA 8 Metals	RCOC-NM	RCOC-TX	Sample Temp	Sample	Remarks				
1336	6/4/25	soil	1	BH03-7'		11				X			2.3					
1020			1	BH04-0'		12				X			2.9					
1028			1	04-21		13				X			3.3					
1102			1	04-41		14				X			3.7					
1340			1	04-61		15				X			3.4					
1342			1	04-6-5'		16				X			3.8					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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>Israel Estrella</u>																		
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>6-5-25</u>	Time <u>7:11</u>	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>6-5-25</u>	Time <u>0711</u>	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.												
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>6-5-25</u>	Time <u>1615</u>	Received by: (Signature) <u>l. M.</u>	Date <u>6-5-25</u>	Time <u>1615</u>													
Relinquished by: (Signature) <u>N.</u>	Date <u>6-5-25</u>	Time <u>2330</u>	Received by: (Signature) <u>Noe Soto</u>	Date <u>6-6-25</u>	Time <u>0645</u>													
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: <input checked="" type="checkbox"/> N												
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

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/06/25 06:45	Work Order ID:	E506035
Phone:	(972) 371-5200	Date Logged In:	06/05/25 15:07	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	06/12/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? No
 2. Does the number of samples per sampling site location match the COC? Yes
 3. Were samples dropped off by client or carrier? Yes Carrier: Courier
 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
 5. Were all samples received within holding time? 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.

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? Yes
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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

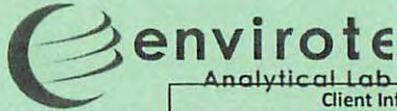
26. Does the sample have more than one phase, i.e., multiphase? No
 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

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

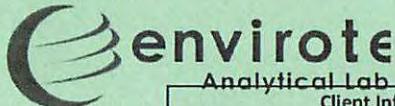
Client Instruction

Signature of client authorizing changes to the COC or sample disposition.	Date
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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 Name: Ray State Slot 3 TB				Address: 3122 National Parks Hwy			E506035	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:																	
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	TCCD 1005 - TX	RCRA Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
945	6/4/25	Soil	1	BH01-3				1										Compliance	Y	or	N
949				02-01				2										PWSID #			
958				02-21				3										Same Temp		Remarks	
1252				02-41				4										3.9	Changed		
1326				02-61				5										2.7	Sample II		
1408				02-7 ND 81				6										2.9	AG to		
1000				03-01				7										4.4	match		
1012				03-21				8										jar			
1255				03-41				9										4.4	per		
1334				03-61				10										2.3	client.		
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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																					
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 on ice at a temp above 0 but less than 6°C on subsequent days.												
Michelle Gonzales		6/5/25	7:11	Michelle Gonzales			6-5-25	0711													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)			Date	Time													
Michelle Gonzales		6-5-25	1615	John M.			6-5-25	1615													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)			Date	Time													
John M.		6-5-25	2330	Noe Soto			6-6-25	0645													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)			Date	Time	Lab Use Only												
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 Project Name: Ray State Slot 3 TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:				Lab WO# ES06035 Job Number 23003-0002				1D	2D	3D	Std	NM	CO	UT	TX				
																x	x						
Analysis and Method																EPA Program							
Lab Use Only Lab ID: 8015 Lab Name: Envirote NM Lab Address: 3000 10th Street, Carlsbad NM Lab Phone: 575-232-8015 Lab Fax: 575-232-8021 Lab Email: agiovengo@ensolum.com																SDWA CWA RCRA Compliance PWSID #							
																Y or N							
																Sample Type	Sample Name	Remarks					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	Field Filter	Lab Filter	Chloride 3000	TDS 10000 1X	RCRA 8 Metals	Barium - NM	Barium - TX	SDWA	CWA	RCRA					
1336	6/4/25	Soil	1	BH03-7'				11								X		2.3					
1020			1	BH04-0'				12								X		2.9					
1028			1	04-21				13								X		3.3					
1102			1	04-41				14								X		3.7					
1240			1	04-61				15								X		3.4					
1342			1	04-6.5'				16								X		3.8					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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>Israel Estrella</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 on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> N																	
<u>Israel Estrella</u>	6/5/25	7:11	<u>Michelle Gonzales</u>	6-5-25	0711																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																		
<u>Michelle Gonzales</u>	6-5-25	1615	<u>LL M.</u>	6-5-25	1615																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																		
<u>LL M.</u>	6-5-25	2330	<u>Noe Soto</u>	6-6-25	0645																		
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.																							

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Ray State Slot 3 TB

Work Order: E506269

Job Number: 23003-0002

Received: 6/27/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/3/25

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



Date Reported: 7/3/25



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

Project Name: Ray State Slot 3 TB
Workorder: E506269
Date Received: 6/27/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/27/2025 7:00:00AM, under the Project Name: Ray State Slot 3 TB.

The analytical test results summarized in this report with the Project Name: Ray State Slot 3 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 07/03/25 13:06
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01-0'	E506269-01A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG01-1'	E506269-02A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG01-2'	E506269-03A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG01-3'	E506269-04A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG01-4'	E506269-05A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG01-5'	E506269-06A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG01-6'	E506269-07A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG01-7'	E506269-08A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG02-0'	E506269-09A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG02-1'	E506269-10A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG02-2'	E506269-11A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG02-3'	E506269-12A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG02-4'	E506269-13A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG02-5'	E506269-14A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG02-6'	E506269-15A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.
BG02-7'	E506269-16A	Soil	06/25/25	06/27/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG01-0'**E506269-01**

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	89.9 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.2 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
<i>Surrogate: n-Nonane</i>	111 %	61-141		06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2527048
Chloride	ND	20.0	1	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG01-1'**E506269-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID		88.7 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.3 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane		105 %	61-141	06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	ND	20.0	1	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG01-2'**E506269-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID		90.7 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.4 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane		103 %	61-141	06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	20.7	20.0	1	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG01-3'**E506269-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID		90.6 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.7 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane		104 %	61-141	06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	56.6	20.0	1	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG01-4'**E506269-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID	89.4 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.4 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane	106 %	61-141		06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	113	20.0	1	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG01-5'**E506269-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID		90.3 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.8 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane		105 %	61-141	06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	152	100	5	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG01-6'**E506269-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID		88.3 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.1 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane		99.5 %	61-141	06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	257	100	5	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG01-7'**E506269-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID	87.8 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.1 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane	101 %	61-141		06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	279	100	5	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG02-0'**E506269-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID	89.6 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.5 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane	107 %	61-141		06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	1160	20.0	1	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG02-1'**E506269-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID		89.7 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		79.4 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane		105 %	61-141	06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	4110	40.0	2	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG02-2'

E506269-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID	88.9 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.9 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane	103 %	61-141		06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	1910	20.0	1	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG02-3'**E506269-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID		89.5 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.4 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane		114 %	61-141	06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	1110	20.0	1	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG02-4'**E506269-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID		90.2 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.6 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane		106 %	61-141	06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	1600	40.0	2	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG02-5'**E506269-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID	90.9 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	81.1 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane	109 %	61-141		06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	1570	20.0	1	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG02-6'**E506269-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID	94.0 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.1 %	70-130		06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane	103 %	61-141		06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	1620	40.0	2	07/01/25	07/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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BG02-7'

E506269-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Benzene	ND	0.0250	1	06/28/25	06/30/25	
Ethylbenzene	ND	0.0250	1	06/28/25	06/30/25	
Toluene	ND	0.0250	1	06/28/25	06/30/25	
o-Xylene	ND	0.0250	1	06/28/25	06/30/25	
p,m-Xylene	ND	0.0500	1	06/28/25	06/30/25	
Total Xylenes	ND	0.0250	1	06/28/25	06/30/25	
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2526167
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	06/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.5 %	70-130	06/28/25	06/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2527041
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane		103 %	61-141	06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2527048
Chloride	2160	40.0	2	07/01/25	07/02/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526167-BLK1)

Prepared: 06/28/25 Analyzed: 06/29/25

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

7.19 8.00 89.9 70-130

LCS (2526167-BS1)

Prepared: 06/28/25 Analyzed: 06/29/25

Benzene	4.62	0.0250	5.00	92.3	70-130				
Ethylbenzene	4.63	0.0250	5.00	92.5	70-130				
Toluene	4.63	0.0250	5.00	92.6	70-130				
o-Xylene	4.65	0.0250	5.00	93.0	70-130				
p,m-Xylene	9.28	0.0500	10.0	92.8	70-130				
Total Xylenes	13.9	0.0250	15.0	92.9	70-130				

Surrogate: 4-Bromochlorobenzene-PID

7.30 8.00 91.3 70-130

Matrix Spike (2526167-MS1)

Source: E506269-03

Prepared: 06/28/25 Analyzed: 06/30/25

Benzene	4.65	0.0250	5.00	ND	93.0	70-130			
Ethylbenzene	4.64	0.0250	5.00	ND	92.7	70-130			
Toluene	4.66	0.0250	5.00	ND	93.2	70-130			
o-Xylene	4.67	0.0250	5.00	ND	93.4	70-130			
p,m-Xylene	9.32	0.0500	10.0	ND	93.2	70-130			
Total Xylenes	14.0	0.0250	15.0	ND	93.3	70-130			

Surrogate: 4-Bromochlorobenzene-PID

7.24 8.00 90.6 70-130

Matrix Spike Dup (2526167-MSD1)

Source: E506269-03

Prepared: 06/28/25 Analyzed: 06/30/25

Benzene	5.49	0.0250	5.00	ND	110	70-130	16.5	27	
Ethylbenzene	5.48	0.0250	5.00	ND	110	70-130	16.8	26	
Toluene	5.51	0.0250	5.00	ND	110	70-130	16.7	20	
o-Xylene	5.52	0.0250	5.00	ND	110	70-130	16.7	25	
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130	16.3	23	
Total Xylenes	16.5	0.0250	15.0	ND	110	70-130	16.4	26	

Surrogate: 4-Bromochlorobenzene-PID

7.34 8.00 91.7 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2526167-BLK1)

Prepared: 06/28/25 Analyzed: 06/29/25

Gasoline Range Organics (C6-C10)	ND	20.0				
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.67		8.00	83.3	70-130	

LCS (2526167-BS2)

Prepared: 06/28/25 Analyzed: 06/30/25

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0	83.2	70-130	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.66		8.00	83.2	70-130	

Matrix Spike (2526167-MS2)

Source: E506269-03

Prepared: 06/28/25 Analyzed: 06/30/25

Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.4	70-130	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.82		8.00		85.2	70-130	

Matrix Spike Dup (2526167-MSD2)

Source: E506269-03

Prepared: 06/28/25 Analyzed: 06/30/25

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0	ND	80.9	70-130	4.24	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.36		8.00		79.5	70-130		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2527041-BLK1)

Prepared: 06/30/25 Analyzed: 07/02/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	51.2		50.0		102	61-141		

LCS (2527041-BS1)

Prepared: 06/30/25 Analyzed: 07/02/25

Diesel Range Organics (C10-C28)	286	25.0	250		114	66-144		
Surrogate: n-Nonane	53.9		50.0		108	61-141		

Matrix Spike (2527041-MS1)

Source: E506269-11 Prepared: 06/30/25 Analyzed: 07/02/25

Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	56-156		
Surrogate: n-Nonane	53.2		50.0		106	61-141		

Matrix Spike Dup (2527041-MSD1)

Source: E506269-11 Prepared: 06/30/25 Analyzed: 07/02/25

Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	56-156	4.03	20
Surrogate: n-Nonane	51.0		50.0		102	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/3/2025 1:06:45PM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2527048-BLK1)

Prepared: 07/01/25 Analyzed: 07/02/25

Chloride	ND	20.0							
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LCS (2527048-BS1)

Prepared: 07/01/25 Analyzed: 07/02/25

Chloride	251	20.0	250	100	90-110				
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Matrix Spike (2527048-MS1)

Source: E506269-09 Prepared: 07/01/25 Analyzed: 07/02/25

Chloride	1290	20.0	250	1160	53.3	80-120			M4
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Matrix Spike Dup (2527048-MSD1)

Source: E506269-09 Prepared: 07/01/25 Analyzed: 07/02/25

Chloride	1350	20.0	250	1160	77.7	80-120	4.63	20	M4
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/03/25 13:06
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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

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 Name: Ray State Slot 3 TB				Address: 3122 National Parks Hwy				E50102109	0056					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:													
Sample Information																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	Field	GR/DO/DR/DO By	8015	RCRA 8 Metals	8000C - NM	8000C - TX	Sample Name	Remarks	
9:29	6/25/2025	Soil	1	BG01-0'				1								2.4	
9:32	6/25/2025	Soil	1	BG01-1'				2								2.3	
9:33	6/25/2025	Soil	1	BG01-2'				3								1.4	
9:35	6/25/2025	Soil	1	BG01-3'				4								1.0	
9:40	6/25/2025	Soil	1	BG01-4'				5								0.9	
9:42	6/25/2025	Soil	1	BG01-5'				6								1.7	
9:46	6/25/2025	Soil	1	BG01-6'				7								1.1	
10:15	6/25/2025	Soil	1	BG01-7'				8								1.4	
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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>Gus Sanchez</u>																	
Relinquished by: (Signature)	Date <u>6-26-25</u>	Time <u>7:18</u>	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>6-26-25</u>	Time <u>0718</u>	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.											
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>6-26-25</u>	Time <u>1620</u>	Received by: (Signature) <u>Jill</u>	Date <u>6-26-25</u>	Time <u>1620</u>												
Relinquished by: (Signature) <u>Jill</u>	Date <u>6-26-25</u>	Time <u>2300</u>	Received by: (Signature) <u>Caitlin Mar</u>	Date <u>6-27-25</u>	Time <u>700</u>												
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time												
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time												
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: 6/27/2025 12:52:42PM

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/27/25 07:00	Work Order ID:	E506269
Phone:	(972) 371-5200	Date Logged In:	06/26/25 16:12	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	07/03/25 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 Carrier: Courier
 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.

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? Yes
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Comments/Resolution**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



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Ray State Slot 3 TB

Work Order: E506284

Job Number: 23003-0002

Received: 6/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/7/25

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

Date Reported: 7/7/25



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

Project Name: Ray State Slot 3 TB
Workorder: E506284
Date Received: 6/28/2025 9:30:58AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/28/2025 9:30:58AM, under the Project Name: Ray State Slot 3 TB.

The analytical test results summarized in this report with the Project Name: Ray State Slot 3 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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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: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 07/07/25 16:30
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG03-0'	E506284-01A	Soil	06/25/25	06/28/25	Glass Jar, 2 oz.
BG03-1'	E506284-02A	Soil	06/25/25	06/28/25	Glass Jar, 2 oz.
BG03-2'	E506284-03A	Soil	06/25/25	06/28/25	Glass Jar, 2 oz.
BG03-3'	E506284-04A	Soil	06/25/25	06/28/25	Glass Jar, 2 oz.
BG03-4'	E506284-05A	Soil	06/25/25	06/28/25	Glass Jar, 2 oz.
BG03-5'	E506284-06A	Soil	06/25/25	06/28/25	Glass Jar, 2 oz.
BG03-6'	E506284-07A	Soil	06/25/25	06/28/25	Glass Jar, 2 oz.
BG03-7'	E506284-08A	Soil	06/25/25	06/28/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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BG03-0'**E506284-01**

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Benzene	ND	0.0250	1	06/28/25	07/01/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/01/25	
Toluene	ND	0.0250	1	06/28/25	07/01/25	
o-Xylene	ND	0.0250	1	06/28/25	07/01/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/01/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.3 %	70-130		06/28/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	101 %	70-130		06/28/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2527115
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/25	07/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/25	07/03/25	
<i>Surrogate: n-Nonane</i>	98.4 %	61-141		07/03/25	07/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	9990	200	10	07/02/25	07/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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BG03-1'**E506284-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Benzene	ND	0.0250	1	06/28/25	07/01/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/01/25	
Toluene	ND	0.0250	1	06/28/25	07/01/25	
o-Xylene	ND	0.0250	1	06/28/25	07/01/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/01/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/01/25	
Surrogate: 4-Bromochlorobenzene-PID		98.5 %	70-130	06/28/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.5 %	70-130	06/28/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2527115
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/25	07/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/25	07/03/25	
Surrogate: n-Nonane		98.1 %	61-141	07/03/25	07/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	2550	40.0	2	07/02/25	07/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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BG03-2'**E506284-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Benzene	ND	0.0250	1	06/28/25	07/01/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/01/25	
Toluene	ND	0.0250	1	06/28/25	07/01/25	
o-Xylene	ND	0.0250	1	06/28/25	07/01/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/01/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>101 %</i>	<i>70-130</i>		<i>06/28/25</i>	<i>07/01/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>98.1 %</i>	<i>70-130</i>		<i>06/28/25</i>	<i>07/01/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2527042
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/03/25	
<i>Surrogate: n-Nonane</i>	<i>98.4 %</i>	<i>61-141</i>		<i>06/30/25</i>	<i>07/03/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	1610	40.0	2	07/02/25	07/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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BG03-3'**E506284-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Benzene	ND	0.0250	1	06/28/25	07/01/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/01/25	
Toluene	ND	0.0250	1	06/28/25	07/01/25	
o-Xylene	ND	0.0250	1	06/28/25	07/01/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/01/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>102 %</i>	<i>70-130</i>		<i>06/28/25</i>	<i>07/01/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>97.6 %</i>	<i>70-130</i>		<i>06/28/25</i>	<i>07/01/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2527042
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/03/25	
<i>Surrogate: n-Nonane</i>	<i>104 %</i>	<i>61-141</i>		<i>06/30/25</i>	<i>07/03/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	1260	20.0	1	07/02/25	07/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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BG03-4'**E506284-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Benzene	ND	0.0250	1	06/28/25	07/01/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/01/25	
Toluene	ND	0.0250	1	06/28/25	07/01/25	
o-Xylene	ND	0.0250	1	06/28/25	07/01/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/01/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/01/25	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	70-130	06/28/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	70-130	06/28/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2527042
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/03/25	
Surrogate: n-Nonane		103 %	61-141	06/30/25	07/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	1090	20.0	1	07/02/25	07/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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BG03-5'**E506284-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Benzene	ND	0.0250	1	06/28/25	07/01/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/01/25	
Toluene	ND	0.0250	1	06/28/25	07/01/25	
o-Xylene	ND	0.0250	1	06/28/25	07/01/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/01/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/01/25	
Surrogate: 4-Bromochlorobenzene-PID	98.6 %	70-130		06/28/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.1 %	70-130		06/28/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2527042
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane	101 %	61-141		06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	606	40.0	2	07/02/25	07/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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BG03-6'**E506284-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Benzene	ND	0.0250	1	06/28/25	07/01/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/01/25	
Toluene	ND	0.0250	1	06/28/25	07/01/25	
o-Xylene	ND	0.0250	1	06/28/25	07/01/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/01/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/01/25	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	70-130	06/28/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.9 %	70-130	06/28/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2527042
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane		102 %	61-141	06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	451	20.0	1	07/02/25	07/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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BG03-7'**E506284-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Benzene	ND	0.0250	1	06/28/25	07/01/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/01/25	
Toluene	ND	0.0250	1	06/28/25	07/01/25	
o-Xylene	ND	0.0250	1	06/28/25	07/01/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/01/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/01/25	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	70-130	06/28/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526174
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.8 %	70-130	06/28/25	07/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2527042
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/02/25	
Surrogate: n-Nonane		107 %	61-141	06/30/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	697	20.0	1	07/02/25	07/03/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526174-BLK1)

Prepared: 06/28/25 Analyzed: 07/01/25

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

7.67 8.00 95.9 70-130

LCS (2526174-BS1)

Prepared: 06/28/25 Analyzed: 07/01/25

Benzene	4.73	0.0250	5.00	94.7	70-130				
Ethylbenzene	4.66	0.0250	5.00	93.3	70-130				
Toluene	4.71	0.0250	5.00	94.2	70-130				
o-Xylene	4.71	0.0250	5.00	94.3	70-130				
p,m-Xylene	9.48	0.0500	10.0	94.8	70-130				
Total Xylenes	14.2	0.0250	15.0	94.6	70-130				

Surrogate: 4-Bromochlorobenzene-PID

7.55 8.00 94.4 70-130

Matrix Spike (2526174-MS1)

Source: E506282-03

Prepared: 06/28/25 Analyzed: 07/01/25

Benzene	4.47	0.0250	5.00	ND	89.5	70-130			
Ethylbenzene	4.45	0.0250	5.00	ND	89.0	70-130			
Toluene	4.47	0.0250	5.00	ND	89.4	70-130			
o-Xylene	4.46	0.0250	5.00	ND	89.2	70-130			
p,m-Xylene	9.06	0.0500	10.0	ND	90.6	70-130			
Total Xylenes	13.5	0.0250	15.0	ND	90.1	70-130			

Surrogate: 4-Bromochlorobenzene-PID

7.70 8.00 96.2 70-130

Matrix Spike Dup (2526174-MSD1)

Source: E506282-03

Prepared: 06/28/25 Analyzed: 07/01/25

Benzene	5.26	0.0250	5.00	ND	105	70-130	16.2	27	
Ethylbenzene	5.26	0.0250	5.00	ND	105	70-130	16.7	26	
Toluene	5.27	0.0250	5.00	ND	105	70-130	16.4	20	
o-Xylene	5.22	0.0250	5.00	ND	104	70-130	15.8	25	
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130	16.5	23	
Total Xylenes	15.9	0.0250	15.0	ND	106	70-130	16.2	26	

Surrogate: 4-Bromochlorobenzene-PID

7.75 8.00 96.9 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2526174-BLK1)

Prepared: 06/28/25 Analyzed: 07/01/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.99		8.00		99.8	70-130		

LCS (2526174-BS2)

Prepared: 06/28/25 Analyzed: 07/01/25

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0		98.7	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.23		8.00		103	70-130		

Matrix Spike (2526174-MS2)

Source: E506282-03

Prepared: 06/28/25 Analyzed: 07/01/25

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	96.0	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.21		8.00		103	70-130		

Matrix Spike Dup (2526174-MSD2)

Source: E506282-03

Prepared: 06/28/25 Analyzed: 07/01/25

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.1	70-130	5.18	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		8.00		103	70-130		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2527042-BLK1)

Prepared: 06/30/25 Analyzed: 07/01/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	62.0		50.0		124	61-141			

LCS (2527042-BS1)

Prepared: 06/30/25 Analyzed: 07/01/25

Diesel Range Organics (C10-C28)	275	25.0	250	110	66-144				
Surrogate: n-Nonane	50.7		50.0	101	61-141				

Matrix Spike (2527042-MS1)

Source: E506276-05 Prepared: 06/30/25 Analyzed: 07/01/25

Diesel Range Organics (C10-C28)	2470	25.0	250	2470	2.37	56-156			M4
Surrogate: n-Nonane	64.0		50.0	128		61-141			

Matrix Spike Dup (2527042-MSD1)

Source: E506276-05 Prepared: 06/30/25 Analyzed: 07/01/25

Diesel Range Organics (C10-C28)	2570	25.0	250	2470	41.8	56-156	3.91	20	M4
Surrogate: n-Nonane	64.0		50.0	128		61-141			

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2527115-BLK1)

Prepared: 07/03/25 Analyzed: 07/03/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	46.9		50.0		93.8	61-141		

LCS (2527115-BS1)

Prepared: 07/03/25 Analyzed: 07/03/25

Diesel Range Organics (C10-C28)	253	25.0	250		101	66-144		
Surrogate: n-Nonane	46.6		50.0		93.3	61-141		

Matrix Spike (2527115-MS1)

Source: E507005-01 Prepared: 07/03/25 Analyzed: 07/03/25

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156		
Surrogate: n-Nonane	48.7		50.0		97.5	61-141		

Matrix Spike Dup (2527115-MSD1)

Source: E507005-01 Prepared: 07/03/25 Analyzed: 07/03/25

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156	4.69	20
Surrogate: n-Nonane	47.4		50.0		94.8	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 4:30:40PM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2527080-BLK1)

Prepared: 07/02/25 Analyzed: 07/03/25

Chloride	ND	20.0
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LCS (2527080-BS1)

Prepared: 07/02/25 Analyzed: 07/03/25

Chloride	256	20.0	250	103	90-110
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Matrix Spike (2527080-MS1)

Source: E506280-03 Prepared: 07/02/25 Analyzed: 07/03/25

Chloride	7620	100	250	7600	8.54	80-120		M4
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Matrix Spike Dup (2527080-MSD1)

Source: E506280-03 Prepared: 07/02/25 Analyzed: 07/03/25

Chloride	6400	100	250	7600	NR	80-120	17.5	20	M4
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/07/25 16:30
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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

Client Information				Invoice Information				Lab Use Only			TAT			State			
Client: Matador Production Company Project Name: Ray State Slot 3 TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:				Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX
								FS00284	28003002				x				
Analysis and Method												EPA Program					
													SDWA	CWA	RCRA		
													Compliance	Y	or	N	
													PWSID #				
													Sample Temp	Remarks			
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	TCEQ 1005 - TX	RCRA 8 Metals	EgDOC - NM	EgDOC - TX
12:29	6/25/2025	Soil	1	BG03-0'				1							x		2.6
12:30	6/25/2025	Soil	1	BG03-1'				2							x		2.4
12:32	6/25/2025	Soil	1	BG03-2'				3							x		3.0
12:33	6/25/2025	Soil	1	BG03-3'				4							x		2.1
12:35	6/25/2025	Soil	1	BG03-4'				5							x		2.4
12:43	6/25/2025	Soil	1	BG03-5'				6							x		3.0
12:50	6/25/2025	Soil	1	BG03-6'				7							x		2.8
12:52	6/25/2025	Soil	1	BG03-7'				8							x		2.6
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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>Gus Sanchez</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 on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <u>Y/N</u>									
<u>Gus Sanchez</u>		6-27-25	7:18	<u>Michelle Gonzales</u>		6-27-25	0718										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
<u>Michelle Gonzales</u>		6-27-25	1645	<u>Michelle Gonzales</u>		6-27-25	1730										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
<u>Michelle Gonzales</u>		6-27-25	2400	<u>Carthina</u>		6-28-25	0930										
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

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/28/25 09:30	Work Order ID:	E506284
Phone:	(972) 371-5200	Date Logged In:	06/27/25 15:26	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	07/07/25 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 Carrier: Courier
 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.

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? Yes
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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
---	------

Report to:

Ashley Giovengo



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Ray State Slot 3 TB

Work Order: E506283

Job Number: 23003-0002

Received: 6/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/7/25

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

Date Reported: 7/7/25



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

Project Name: Ray State Slot 3 TB
Workorder: E506283
Date Received: 6/28/2025 9:30:58AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/28/2025 9:30:58AM, under the Project Name: Ray State Slot 3 TB.

The analytical test results summarized in this report with the Project Name: Ray State Slot 3 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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
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rainaschwanz@envirotech-inc.com

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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: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 07/07/25 11:51
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG04-0'	E506283-01A	Soil	06/26/25	06/28/25	Glass Jar, 2 oz.
BG04-1'	E506283-02A	Soil	06/26/25	06/28/25	Glass Jar, 2 oz.
BG04-2'	E506283-03A	Soil	06/26/25	06/28/25	Glass Jar, 2 oz.
BG04-3'	E506283-04A	Soil	06/26/25	06/28/25	Glass Jar, 2 oz.
BG04-4'	E506283-05A	Soil	06/26/25	06/28/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 11:51:16AM
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BG04-0'**E506283-01**

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526172
Benzene	ND	0.0250	1	06/28/25	07/02/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/02/25	
Toluene	ND	0.0250	1	06/28/25	07/02/25	
o-Xylene	ND	0.0250	1	06/28/25	07/02/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/02/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/02/25	
Surrogate: 4-Bromochlorobenzene-PID	95.3 %	70-130		06/28/25	07/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526172
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.4 %	70-130		06/28/25	07/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2527060
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/25	07/02/25	
Surrogate: n-Nonane	118 %	61-141		07/02/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	37.1	20.0	1	07/02/25	07/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 11:51:16AM
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BG04-1'**E506283-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526172
Benzene	ND	0.0250	1	06/28/25	07/02/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/02/25	
Toluene	ND	0.0250	1	06/28/25	07/02/25	
o-Xylene	ND	0.0250	1	06/28/25	07/02/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/02/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/02/25	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		06/28/25	07/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526172
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	70-130		06/28/25	07/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2527060
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/25	07/02/25	
Surrogate: n-Nonane	114 %	61-141		07/02/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	1560	100	5	07/02/25	07/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 11:51:16AM
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BG04-2'**E506283-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526172
Benzene	ND	0.0250	1	06/28/25	07/02/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/02/25	
Toluene	ND	0.0250	1	06/28/25	07/02/25	
o-Xylene	ND	0.0250	1	06/28/25	07/02/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/02/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/02/25	
Surrogate: 4-Bromochlorobenzene-PID	97.3 %	70-130		06/28/25	07/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526172
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	100 %	70-130		06/28/25	07/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2527060
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/25	07/02/25	
Surrogate: n-Nonane	114 %	61-141		07/02/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	1870	40.0	2	07/02/25	07/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 11:51:16AM
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BG04-3'**E506283-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526172
Benzene	ND	0.0250	1	06/28/25	07/02/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/02/25	
Toluene	ND	0.0250	1	06/28/25	07/02/25	
o-Xylene	ND	0.0250	1	06/28/25	07/02/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/02/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/02/25	
Surrogate: 4-Bromochlorobenzene-PID	95.5 %	70-130		06/28/25	07/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526172
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	70-130		06/28/25	07/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2527060
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/25	07/02/25	
Surrogate: n-Nonane	104 %	61-141		07/02/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	909	100	5	07/02/25	07/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 11:51:16AM
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BG04-4'**E506283-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2526172
Benzene	ND	0.0250	1	06/28/25	07/02/25	
Ethylbenzene	ND	0.0250	1	06/28/25	07/02/25	
Toluene	ND	0.0250	1	06/28/25	07/02/25	
o-Xylene	ND	0.0250	1	06/28/25	07/02/25	
p,m-Xylene	ND	0.0500	1	06/28/25	07/02/25	
Total Xylenes	ND	0.0250	1	06/28/25	07/02/25	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		06/28/25	07/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2526172
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/28/25	07/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	101 %	70-130		06/28/25	07/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2527060
Diesel Range Organics (C10-C28)	ND	25.0	1	07/02/25	07/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/02/25	07/02/25	
Surrogate: n-Nonane	108 %	61-141		07/02/25	07/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2527080
Chloride	ND	20.0	1	07/02/25	07/03/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 7/7/2025 11:51:16AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2526172-BLK1)

Prepared: 06/28/25 Analyzed: 07/01/25

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

8.10 8.00 101 70-130

LCS (2526172-BS1)

Prepared: 06/28/25 Analyzed: 07/02/25

Benzene	4.64	0.0250	5.00	92.8	70-130				
Ethylbenzene	4.63	0.0250	5.00	92.6	70-130				
Toluene	4.64	0.0250	5.00	92.9	70-130				
o-Xylene	4.66	0.0250	5.00	93.1	70-130				
p,m-Xylene	9.43	0.0500	10.0	94.3	70-130				
Total Xylenes	14.1	0.0250	15.0	93.9	70-130				

Surrogate: 4-Bromochlorobenzene-PID

7.73 8.00 96.6 70-130

Matrix Spike (2526172-MS1)

Source: E506280-02

Prepared: 06/28/25 Analyzed: 07/01/25

Benzene	4.46	0.0250	5.00	ND	89.2	70-130			
Ethylbenzene	4.44	0.0250	5.00	ND	88.8	70-130			
Toluene	4.45	0.0250	5.00	ND	89.1	70-130			
o-Xylene	4.42	0.0250	5.00	ND	88.3	70-130			
p,m-Xylene	9.03	0.0500	10.0	ND	90.3	70-130			
Total Xylenes	13.4	0.0250	15.0	ND	89.6	70-130			

Surrogate: 4-Bromochlorobenzene-PID

7.73 8.00 96.6 70-130

Matrix Spike Dup (2526172-MSD1)

Source: E506280-02

Prepared: 06/28/25 Analyzed: 07/02/25

Benzene	5.16	0.0250	5.00	ND	103	70-130	14.5	27	
Ethylbenzene	5.14	0.0250	5.00	ND	103	70-130	14.5	26	
Toluene	5.15	0.0250	5.00	ND	103	70-130	14.6	20	
o-Xylene	5.11	0.0250	5.00	ND	102	70-130	14.6	25	
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130	14.5	23	
Total Xylenes	15.5	0.0250	15.0	ND	104	70-130	14.5	26	

Surrogate: 4-Bromochlorobenzene-PID

7.78 8.00 97.3 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 7/7/2025 11:51:16AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2526172-BLK1)

Prepared: 06/28/25 Analyzed: 07/01/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.4	70-130		

LCS (2526172-BS2)

Prepared: 06/28/25 Analyzed: 07/02/25

Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.50		8.00	106	70-130			

Matrix Spike (2526172-MS2)

Source: E506280-02

Prepared: 06/28/25 Analyzed: 07/01/25

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.4	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.0	70-130		

Matrix Spike Dup (2526172-MSD2)

Source: E506280-02

Prepared: 06/28/25 Analyzed: 07/01/25

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0	ND	102	70-130	10.8	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.14		8.00		102	70-130		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Ray State Slot 3 TB 23003-0002 Ashley Giovengo	Reported: 7/7/2025 11:51:16AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2527060-BLK1)

Prepared: 07/02/25 Analyzed: 07/02/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	53.1		50.0		106	61-141		

LCS (2527060-BS1)

Prepared: 07/02/25 Analyzed: 07/02/25

Diesel Range Organics (C10-C28)	281	25.0	250		113	66-144		
Surrogate: n-Nonane	54.9		50.0		110	61-141		

Matrix Spike (2527060-MS1)

Source: E506283-04 Prepared: 07/02/25 Analyzed: 07/02/25

Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	56-156		
Surrogate: n-Nonane	57.1		50.0		114	61-141		

Matrix Spike Dup (2527060-MSD1)

Source: E506283-04 Prepared: 07/02/25 Analyzed: 07/02/25

Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	56-156	4.50	20
Surrogate: n-Nonane	54.8		50.0		110	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/7/2025 11:51:16AM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2527080-BLK1)

Prepared: 07/02/25 Analyzed: 07/03/25

Chloride	ND	20.0
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LCS (2527080-BS1)

Prepared: 07/02/25 Analyzed: 07/03/25

Chloride	256	20.0	250	103	90-110
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Matrix Spike (2527080-MS1)

Source: E506280-03 Prepared: 07/02/25 Analyzed: 07/03/25

Chloride	7620	100	250	7600	8.54	80-120		M4
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Matrix Spike Dup (2527080-MSD1)

Source: E506280-03 Prepared: 07/02/25 Analyzed: 07/03/25

Chloride	6400	100	250	7600	NR	80-120	17.5	20	M4
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Ray State Slot 3 TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/07/25 11:51
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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

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Gus Sanchez

Relinquished by: (Signature) <i>Y/L</i>	Date <u>6-27-25</u>	Time <u>7:18</u>	Received by: (Signature) <i>Michelle Gonzales</i>	Date <u>6-27-25</u>	Time <u>0718</u>	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <i>Y/N</i>
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date <u>6-27-25</u>	Time <u>1645</u>	Received by: (Signature) <i>J. H.</i>	Date <u>6-27-25</u>	Time <u>1730</u>	
Relinquished by: (Signature) <i>John M.</i>	Date <u>6-27-25</u>	Time <u>2400</u>	Received by: (Signature) <i>Carl M.</i>	Date <u>6-28-25</u>	Time <u>0930</u>	
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

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/28/25 09:30	Work Order ID:	E506283
Phone:	(972) 371-5200	Date Logged In:	06/27/25 15:23	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	07/07/25 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 Carrier: Courier
 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.

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? Yes
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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
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APPENDIX E

NMOCD Correspondence

From: [Wells, Shelly, EMNRD](#)
To: [Chad Hamilton](#)
Subject: RE: [EXTERNAL] Proposed Background Chloride Sample Locations for the Ray State Slot 3 Incident Number nAPP2513253339
Date: Tuesday, June 10, 2025 10:07:05 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

You're welcome Chad!

From: Chad Hamilton <chamilton@ensolum.com>
Sent: Tuesday, June 10, 2025 10:06 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Jason Touchet <jason.touchet@matadorresources.com>; Arsenio Jones <arsenio.jones@matadorresources.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] Proposed Background Chloride Sample Locations for the Ray State Slot 3 Incident Number nAPP2513253339

Thank you!

Sent from my Verizon, Samsung Galaxy smartphone

Get [Outlook for Android](#)

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, June 10, 2025 9:46:12 AM
To: Chad Hamilton <chamilton@ensolum.com>
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Jason Touchet <jason.touchet@matadorresources.com>; Arsenio Jones <arsenio.jones@matadorresources.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Proposed Background Chloride Sample Locations for the Ray State Slot 3 Incident Number nAPP2513253339

[**EXTERNAL EMAIL**]

Good morning Chad,

Sorry for the delay in getting back to you but I did get to touch base with Mike Bratcher today on the proposed sample locations and we are in agreement that those locations

are acceptable for obtaining background chloride data for the release at Ray State Slot 3 Incident Number nAPP2513253339.

Kind regards,

Shelly

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

From: Chad Hamilton <chamilton@ensolum.com>
Sent: Thursday, June 5, 2025 2:43 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Jason Touchet <jason.touchet@matadorresources.com>; Arsenio Jones <arsenio.jones@matadorresources.com>
Subject: [EXTERNAL] Proposed Background Chloride Sample Locations for the Ray State Slot 3 Incident Number nAPP2513253339

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

Good afternoon, Shelly,

Matador Production Company (Matador) is requesting approval for potential *background chloride sample locations* at the Ray State Slot 3 TB (Site) (Incident Number nAPP2513253339). On May 11, 2025, corrosion of a 90° pipe connection resulted in the release of approximately 8 barrels (bbls) of produced water on pad; 2 bbls were recovered from the release area. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on May 12, 2025, via web portal. The release remained on-pad and did not impact the adjacent pasture.

Ensolum has attempted vertical delineation of the Site and has been unable to reach the strictest Closure Criteria per NMOCD Table I. Due to the Site's proximity to the Pecos River, the Ray State Slot 4, and the General Kehoe #228H, see attached figures. As these areas have confirmed background chloride concentrations, sampling to confirm background chloride concentrations for the Site is warranted. Four background sample locations have been

marked in well vegetated areas according to satellite imagery (See Proposed Background Locations Map) that do not appear to have been disturbed by oil and gas activities. Please review these background sampling locations to confirm they are in areas with acceptable vegetation growth and non-disturbed features that the NMOCD would accept laboratory analytical results for use in developing naturally occurring chloride concentrations for this area and specifically for this Site.

Thanks,



Chad Hamilton

Project Geologist

940-923-0072

Ensolum, LLC

in f

From: [Wells, Shelly, EMNRD](#)
To: [Chad Hamilton](#)
Cc: [Ashley Giovengo](#); [Jason Touchet](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] Extension Request - Matador Production Company - Ray State Slot 3 TB - nAPP2513253339
Date: Monday, August 11, 2025 7:41:13 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Good morning Chad,

The extension request for NAPP2513253339 RAY STATE SLOT 3 TB is approved. The new due date to submit your remediation plan or closure report to the OCD is November 10, 2025. Please include a copy of this and all notifications in the remedial and/or closure report to ensure the notifications are documented in the project file.

Kind regards,

Shelly

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

From: Chad Hamilton <chamilton@ensolum.com>
Sent: Monday, August 11, 2025 7:30 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Jason Touchet <jason.touchet@matadorresources.com>
Subject: [EXTERNAL] Extension Request - Matador Production Company - Ray State Slot 3 TB - nAPP2513253339

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

Hello all,

Matador Production Company (Matador) is requesting an extension of the current deadline of August 11, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Ray State Slot 3 TB (Site) (Incident Number nAPP2513253339). The release occurred on May 11, 2025, and 8 barrels (bbls) of produced water were released; 2 bbls of produced water were recovered. The release impacted an area on-pad approximately 2,000 square feet in size on Private Land. Lateral delineation soil sampling in accordance with the strictest Closure Criteria per NMOCD Table I criteria has been completed at the Site; vertical delineation soil sampling is currently on-going. Excavation of the subject matter release will begin as soon as Matador selects a subcontractor to complete excavation activities. Matador intends to submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation sampling activities. Matador respectfully requests a 90-day extension until November 7, 2025. Please let me know if you have any further questions regarding this site.

Thanks,



Chad Hamilton
Project Geologist
940-923-0072
Ensolum, LLC
[in](#) [f](#) [Twitter icon](#)

From: [Wells, Shelly, EMNRD](#)
To: [Chad Hamilton](#)
Cc: [Jason Touchet](#); [Ashley Gioveno](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] Background Chloride Variance - Ray State Slot 3 TB - nAPP2513253339
Date: Friday, September 19, 2025 10:52:41 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Good morning Chad,

The proposed background chloride variance is rejected. On 6/5/2025, the OCD received an email requesting confirmation that the 4 proposed background chloride locations be approved. After review, Mike Bratcher and Shelly Wells approved of their locations.

During this time, Ensolum w/old that the samples collected at each depth could be averaged to determine a background chloride concentration for each depth and that if TPH was found in any of the boreholes that that borehole could not be used.

The data collected at all 4 previously approved background sample locations may be averaged for each depth interval to derive a background chloride concentration. The following background chloride concentrations may be used:

	BG01	BG02	BG03	BG04	Average
Surface	<20	1160	9990	37.1	2801.775
1'	<20	4110	2550	1560	2060
2'	20.7	1910	1610	1870	1352.675
3'	56.6	1110	1260	909	833.9
4'	113	1600	1090	<20	705.75

Should remediation need to occur below 4' depth, Table I DTGW < 50 feet RRALs should be used as this site is in medium karst. For the sidewalls, they can be delineated to the value above that correlates to their depth. If a sidewall is from 0-2 feet for instance, the 2' average would be used as the background chloride value.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
 Environmental Bureau
 EMNRD-Oil Conservation Division
 1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Chad Hamilton <chamilton@ensolum.com>
Sent: Monday, September 15, 2025 1:34 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Jason Touchet <jason.touchet@matadorresources.com>; Ashley Giovengo <agiovengo@ensolum.com>
Subject: [EXTERNAL] Background Chloride Variance - Ray State Slot 3 TB - nAPP2513253339

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

Ms. Wells,

Please see the attached Proposed Background Chloride Variance Request. Please let me know if you have any questions.

Thanks,



Chad Hamilton
Project Geologist
940-923-0072
Ensolum, LLC
[in](#) [f](#) [Twitter icon](#)

From: [Wells, Shelly, EMNRD](#)
To: [Chad Hamilton](#)
Cc: [Jason Touchet](#); [Ashley Giovengo](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] Extension Request - Matador Production Company - Ray State Slot 3 TB - nAPP2513253339
Date: Monday, November 10, 2025 11:08:07 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Good morning Chad,

An extension request was approved for this release on 8/11/25 due to the same reasons given below. Another extension is not approved at this time. Submit a remediation plan or remediation closure request to OCD Permitting as soon as possible. Please include a copy of this and all notifications in the report to ensure the notifications are documented in the project file.

Sincerely,

Shelly

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

From: Chad Hamilton <chamilton@ensolum.com>
Sent: Monday, November 10, 2025 9:40 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Jason Touchet <jason.touchet@matadorresources.com>; Ashley Giovengo <agiovengo@ensolum.com>
Subject: [EXTERNAL] Extension Request - Matador Production Company - Ray State Slot 3 TB - nAPP2513253339

CAUTION: This email originated outside of our organization. Exercise caution prior to

clicking on links or opening attachments.

Ms. Wells,

Matador Production Company (Matador) is requesting an extension of the current deadline of November 10, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Ray State Slot 3 TB (Site) (Incident Number nAPP2513253339). The release occurred on May 11, 2025, and 8 barrels (bbls) of produced water were released; 2 bbls of produced water were recovered. The release impacted an area on-pad approximately 2,000 square feet in size on Private Land. Lateral delineation soil sampling in accordance with the strictest Closure Criteria per NMOCD Table I criteria has been completed at the Site; vertical delineation soil sampling is currently on-going. Matador is currently completing background chloride sampling activities at the Site. Excavation of the subject matter release will begin as soon as Matador selects a subcontractor to complete excavation activities. Matador intends to submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation sampling activities. Matador respectfully requests a 90-day extension until February 9, 2026. Please let me know if you have any further questions regarding this site.

Thanks,



Chad Hamilton

Project Geologist
940-923-0072

Ensolum, LLC

[in](#) [f](#) [Twitter icon](#)

From: [Wells, Shelly, EMNRD](#)
To: [Chad Hamilton](#)
Cc: [Ashley Giovengo](#); [Jason Touchet](#); [Casey Snow](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] Extension Request - Matador Production Company - Ray State Slot 3 TB - nAPP2513253339
Date: Thursday, November 20, 2025 1:41:41 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Good afternoon Chad,

The extension request is denied for the same reason it was on 11/10/25. The soon to be submitted chloride variance request can be submitted within a remediation plan through the OCD Permitting website which will get this incident back in compliance. Please include a copy of this and all notifications in the report to ensure the notifications are documented in the project file.

Sincerely,

Shelly

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

From: Chad Hamilton <chamilton@ensolum.com>
Sent: Wednesday, November 19, 2025 3:48 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Jason Touchet <jason.touchet@matadorresources.com>; Casey Snow <csnow@matadorresources.com>
Subject: [EXTERNAL] Extension Request - Matador Production Company - Ray State Slot 3 TB - nAPP2513253339

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

Ms. Wells,

Due to today's meeting, Matador Production Company (Matador) is requesting an extension for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Ray State Slot 3 TB (Site) (Incident Number nAPP2513253339). The release occurred on May 11, 2025, and 8 barrels (bbls) of produced water were released; 2 bbls of produced water were recovered. The Site was mapped on May 12, 2025, utilizing a handheld Global Positioning System (GPS) unit. The release impacted an area on-pad approximately 2,000 square feet in size on Private Land. Ensolum, LLC (Ensolum) personnel returned to the Site on May 19, 2025, May 20, 2025, and June 4, 2025, to conduct delineation activities. Eight lateral soil samples (SS01 through SS08) and four boreholes (BH01 through BH04) were advanced via hand auger within the release extent to assess the vertical and lateral extent of the release. Due to the difficulty of achieving vertical delineation in accordance with the strictest Closure Criteria per NMOCD Table I, background chloride delineation was determined to be necessary. Ensolum submitted four proposed background sample locations to NMOCD on June 5, 2025, which was approved on June 10, 2025. Ensolum returned to the Site on June 25, 2025, and June 26, 2025, to conducted soil sampling around the Site to assess for the presence or absence of naturally occurring chloride in undisturbed soil horizons. A total of four background samples (BG01 through BG04) were collected at depths ranging from ground surface to 7 feet bgs. A background chloride variance request was submitted to NMOCD on September 15, 2025, and was rejected on September 19, 2025. A meeting was requested on October 27, 2025, to discuss the background chloride variance denial but the attempts for a meeting were not accepted until November 14, 2025. Matador will complete a new background chloride variance request by November 21, 2025. Excavation of the subject matter release will begin upon the approval of a chloride variance. Matador will select a subcontractor to complete excavation activities. Matador intends to submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation sampling activities. Matador respectfully requests a 90-day extension until February 17, 2026. Please let me know if you have any further questions regarding this site.

Thanks,



Chad Hamilton

Project Geologist

940-923-0072

Ensolum, LLC

From: [Chad Hamilton](#)
To: [Wells, Shelly, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Enviro, OCD, EMNRD](#)
Cc: [Casey Snow](#); [Jason Touchet](#); [Ashley Gioveno](#)
Subject: Background Chloride Variance Request - Matador Production Company - Ray State Slot 3 TB - nAPP2513253339
Date: Friday, November 21, 2025 10:29:00 AM
Attachments: [20250912_Ray_State_Slot_3_TB_Fig1_V1_LN.pdf](#)
[image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[20250912_Ray_State_Slot_3_TB_Fig2_V1_LN.pdf](#)
[20250915_Ray_State_Slot_3_TB_Fig3_V2_LN.pdf](#)
[20251121_RayStateSlot3TB_fiq4_v1_JV.pdf](#)
[Tables 1 and 2.pdf](#)

Matador Production Company (Matador) is requesting a background chloride variance at the Ray State Slot 3 TB (Site) (Incident Number nAPP2513253339). On May 11, 2025, an equipment failure resulted in the release of approximately 8 bbls of produced water onto the pad surface; 2 of produced water were recovered, 6 bbls of produced water were unrecoverable. Matador reported the release to the NMOCD via the NMOCD portal on January 3, 2025, and submitted a Release Notification Form C-141 (Form C-141) on May 12, 2025. The release occurred on a pad and did not impact any off-pad areas.

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-04901 POD1 with a depth to groundwater measurement of 52 feet below ground surface (bgs); the well is 0.73 miles west of the Site and the date of the last recorded measurement was on February 20, 2024. 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 the Pecos River located approximately 1,626 feet southeast of the Site. The Site is potentially 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 May 19, 2025, May 20, 2025, and June 4, 2025, Ensolum personnel were onsite to delineate the lateral and vertical extent of the release as indicated by field observations and information provided in the C-141. Eight lateral soil samples (SS01 through SS08) were collected at ground surface and 1-foot bgs. Four boreholes (BH01 through BH4) were advanced via hand auger within the release extent to assess the vertical extent of the release (see Figure 2). Boreholes BH01 through BH04 were advanced to depths ranging from 3 feet bgs to 8 feet bgs.

On June 25, 2025, and June 26, 2025, Ensolum personnel advanced four boreholes (BG01 through BG04, Figure 2) in areas that had not been previously disturbed by oil and gas operations previously selected by NMOCD personnel during our correspondence on June 10, 2025, at depths ranging from ground surface to 7 feet bgs at the Site (see Figure 3). 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 three of the four undisturbed areas, with a maximum chloride concentration of 9,990 mg/kg detected at BG03. When detected, the elevated concentrations occurred starting at ground surface. (See Table 2). Naturally occurring chloride concentrations ranging from <20.0 mg/kg to 9,990 mg/kg off pad has been documented.

On November 19, 2025, Ensolum personnel along with Matador and NMOCD met to discuss background chloride concentrations at the Site.

Vertical delineation results from delineation boreholes BH01 through BH04 indicate gross impacts from the release from ground surface (36,500 mg/kg) to 2 feet bgs (6,470 mg/kg) in BH04. The drop in chloride concentration from ground surface (11,900 mg/kg) to 1-foot bgs (74.2 mg/kg) in BH01 and (12,300 mg/kg) at ground surface to 1-foot bgs (485 mg/kg) in BH02 show a demarcation of impacts in the non-chloride bearing, imported caliche material. The drop in chloride concentration from ground surface 2 feet bgs (7,940 mg/kg) to 4 feet bgs (714 mg/kg) indicate naturally occurring chlorides are present were not present in the imported caliche since concentrations directly beneath the caliche increase in chloride concentrations. Gross impacts from the release are present from ground surface to 2 feet bgs (6,470 mg/kg) in BH04. Obvious gross soil impacts from the produced water spill are generally confined to the top 2 feet of soil beneath the release footprint, and still with the upper portion of the imported caliche. Contributing to impacted soil and present beneath the release is a documented soil structure naturally high in chloride.

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 has been met, established with strictest Closure Criteria being met within the imported caliche material. In boreholes that did not meet the strictest Closure Criteria (boreholes BH03 and BH04) vertical delineation was met due to chlorides falling within the natural chloride range of <20.0 mg/kg to 9,990 mg/kg.
- The original release extent detected unnaturally high chloride concentrations (>9,990 mg/kg) and associated TPH impacts. Based on Table 2, impacted soil containing chloride range in concentrations from 11,900 mg/kg to 36,500 mg/kg. Excavation of TPH and chloride impacted soil will be completed with the removal of TPH impacts to 100 mg/kg and 7,940 mg/kg for chlorides based on the demarcation lines in Table 2. In general, excavation of impacted soil is anticipated to range from 1-foot to 2 feet bgs based on field and laboratory analytical data.
- 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 600 mg/kg for chloride and 100 mg/kg for TPH in areas where the

depth of the excavation remains within the imported pad material. If sidewall location depths extend to natural material will meet a lateral extent concentration of 4,110. This concentration is within the range of naturally occurring chlorides and does not consider the outlier of 9,990 mg/kg. Sidewall confirmation samples will also be used to define the lateral extent of the release area in lieu of surface lateral delineation.

- Based on the analytical results the proposed excavation extent measures 3,822 sq ft in size and an estimate 340 cubic yards (cu yds), with 35% fluff added to the final yardage, will be removed from the Site (see Figure 4).

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, remediation of soil to the strictest Closure Criteria of soil would require excessive excavation on pad and potentially beyond. This region has adapted to the elevated chloride concentrations in the soil and excessive excavation of native soil may alter the currently stable environment. Removal of gross impacts with chloride concentrations exceeding 6,470 mg/kg will support the current environment the site is within and will be equal or more protective of human health, the environment, and groundwater. Matador respectfully requests approval for this *variance request* associated with Incident Number (nAPP2513253339). **Matador intends to submit a remediation work plan to NMOCD by December 1, 2025.**

Thanks,



Chad Hamilton

Project Geologist

940-923-0072

Ensolum, LLC

From: [Chad Hamilton](#)
To: [Wells, Shelly, EMNRD](#)
Cc: [Ashley Giovengo](#); [Jason Touchet](#)
Subject: RE: [EXTERNAL] RE: nAPP2513253339 RAY STATE SLOT 3 TB
Date: Tuesday, December 23, 2025 12:27:59 PM

Shelly,

My apologies for that, it seems that page 4 is a typo. While adding the total area an 8 was left off for Area 3 and the areas added were $1,565+2,169+88=3,822$ instead of $1,565+2,169+888$. Please let me know if you have any more questions.

Thanks,

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, December 23, 2025 11:05 AM
To: Chad Hamilton <chamilton@ensolum.com>
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Jason Touchet <jason.touchet@matadorresources.com>
Subject: RE: [EXTERNAL] RE: nAPP2513253339 RAY STATE SLOT 3 TB

[**EXTERNAL EMAIL**]

Good morning Chad,

I have another question regarding the submitted remediation plan for Ray State Slot 3 TB. On pg. 4 of the report it says, “Based on laboratory analytical results, the proposed excavation extent measures 3,822 square feet in size.” However, referring to Figure 4, the three excavation areas add up to 4,622 ft². Why do these not add up to the proposed excavation extent?

Sincerely,

Shelly

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

From: Chad Hamilton <chamilton@ensolum.com>
Sent: Monday, December 22, 2025 10:07 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Jason Touchet <jason.touchet@matadorresources.com>
Subject: [EXTERNAL] RE: nAPP2513253339 RAY STATE SLOT 3 TB

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

Good morning, Shelly,

Regarding the depth to water boring C-4909 POD1. The well number change was due to a typo when completing the WR-20 prior to submission to the New Mexico State Land Office (NMOSE). Unfortunately, this correction was made by the driller after it was requested by NMOSE and was not caught by Ensolum when drafting the RWP, the correct well number is according to NMOSE is C-4909 POD1. While completing the soil boring to determine depth to ground water for C-4909 POD1 no water was encountered until 52 feet below ground surface (bgs). A confining layer of gypsum was encountered at 51 feet bgs and had a thickened of approximately 12 inches. Directly beneath this layer water was encountered. This classifies C-4909 POD1 as an Artesian well as it has a confining layer. However, after allowing 72-hours for the water in the well to equilibrate, the static water level was measured at 16 feet bgs. Due to a general soil boring plan being submitted for C-4909 POD1 NMOSE personnel requested the driller change the classification to shallow (unconfined). This was a clerical error due to a separate plan for an Artesian well not being submitted once the conditions of an Artesian well being encountered. This well, however, is not a shallow unconfined as no water was encountered prior to the overlying gypsum layer at 51 feet bgs being encountered and water being encountered below that confining layer.

Kind regards,

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, December 19, 2025 3:22 PM
To: Chad Hamilton <chamilton@ensolum.com>
Subject: nAPP2513253339 RAY STATE SLOT 3 TB

[**EXTERNAL EMAIL**]

Hi Chad,

I am reviewing the remediation plan that was submitted for the nAPP2513253339 RAY STATE SLOT 3 TB and have a question for you regarding the attached boring log submitted for C-4901 POD1. Referring to the OSE Points of Diversion layer on the OCD Oil and Gas Map, this same boring log is attached to C-4909 POD1. When you go to the attached files C-4901 was crossed out and in pen was written 4909 and a check mark was made notating that it is a shallow (unconfined) aquifer. Based on the boring log, depth to groundwater is 16 feet, not 52 feet as it states in the remediation plan. Can you explain what happened with this POD—the crossouts on the paperwork, etc? I look forward to hearing back from you when you have the opportunity.

Kind regards,

Shelly

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 530868

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 530868
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2513253339
Incident Name	NAPP2513253339 RAY STATE SLOT 3 TB @ FAPP2202574461
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2202574461] Ray State Slot 3 Facility Tank Battery

Location of Release Source

Please answer all the questions in this group.

Site Name	RAY STATE SLOT 3 TB
Date Release Discovered	05/11/2025
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	<i>Not answered.</i>
Produced Water Released (bbls) Details	<i>Cause: Equipment Failure Separator Produced Water Released: 8 BBL Recovered: 2 BBL Lost: 6 BBL.</i>
Is the concentration of chloride in the produced water >10,000 mg/l	<i>Yes</i>
Condensate Released (bbls) Details	<i>Not answered.</i>
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	<i>Not answered.</i>
Other Released Details	<i>Not answered.</i>
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	<i>Not answered.</i>

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 530868

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 530868
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	<i>Unavailable.</i>

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	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
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	<i>Not answered.</i>

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: 12/01/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 530868

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 530868
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 500 and 1000 (ft.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	36500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2307
GRO+DRO (EPA SW-846 Method 8015M)	1850
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	01/05/2026
On what date will (or did) the final sampling or liner inspection occur	01/16/2026
On what date will (or was) the remediation complete(d)	01/16/2026
What is the estimated surface area (in square feet) that will be reclaimed	3822
What is the estimated volume (in cubic yards) that will be reclaimed	304
What is the estimated surface area (in square feet) that will be remediated	3822
What is the estimated volume (in cubic yards) that will be remediated	304

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

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Action 530868

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 530868
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	<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 Disposal
(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>

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 12/01/2025
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 530868

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 530868
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	No
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QUESTIONS, Page 6

Action 530868

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 530868
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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	No

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CONDITIONS

Action 530868

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 530868
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with the following conditions: The requested background chloride values of 7,940 mg/kg and 4,110 mg/kg are denied. BG01's data may be removed from the previously averaged dataset and the three remaining background samples may be averaged to obtain the approved background chloride values: Surface=3,729 mg/kg, 1'=2,740 mg/kg, 2'=1,797 mg/kg, 3'=1,093 mg/kg, and 4'=903 mg/kg. Should remediation need to occur below 4' depth, Table I DTGW < 50 feet RRALS should be used. For the sidewalls, they should be delineated to the value above that correlates to their depth. If a sidewall is collected from 0-2 feet depth for instance, the 2' average would be used as the appropriate background chloride value. Ensure ample photographic documentation is provided of the remediated site prior to backfill to confirm excavation depths. A report is due to the OCD by 3/23/26.	12/23/2025