



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', with a stylized flourish at the end.

Chad Hamilton
Project Geologist

A handwritten signature in black ink, appearing to read 'DANIEL R. MOIR', with a large, looping initial 'D'.

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



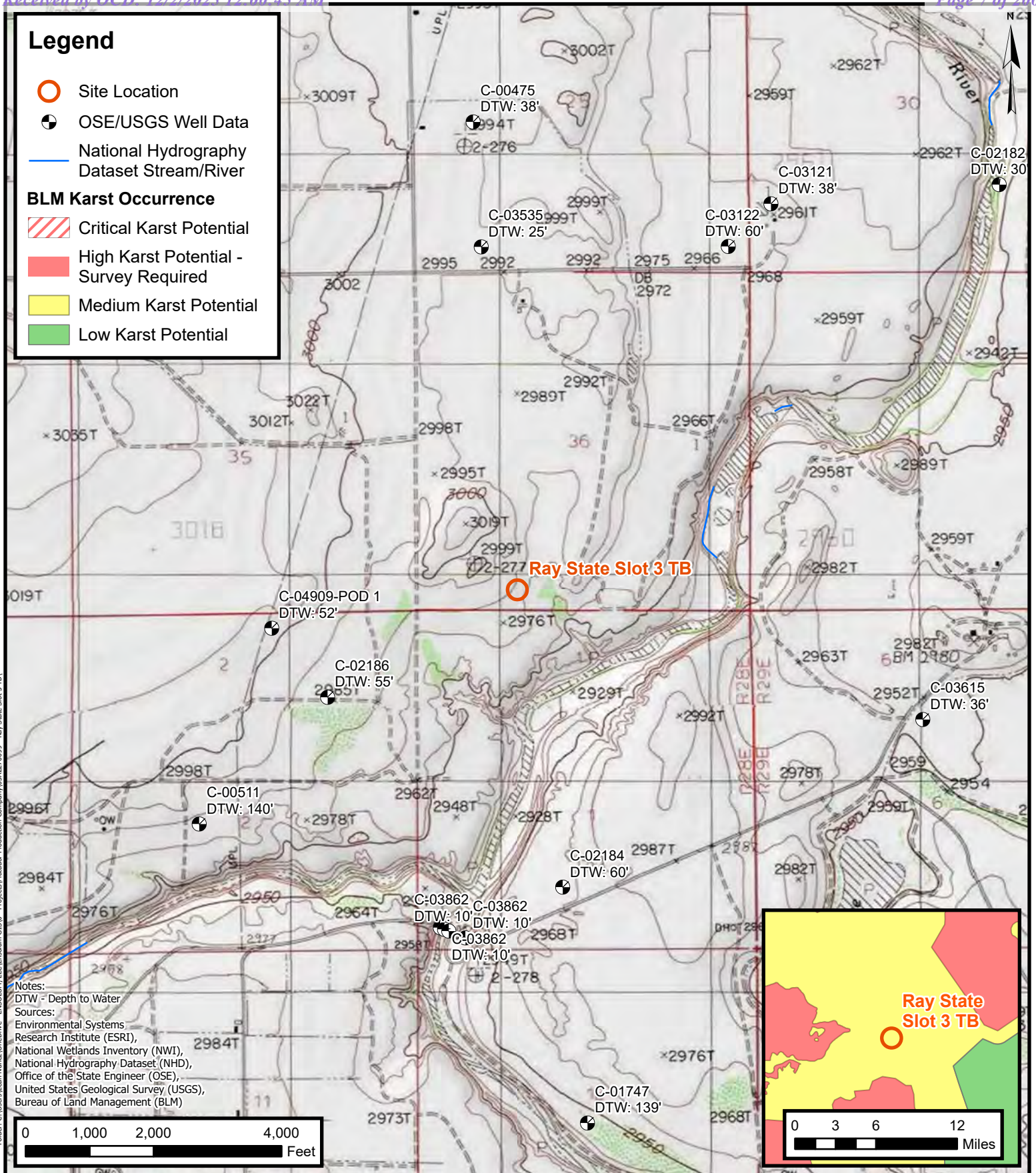
FIGURES

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

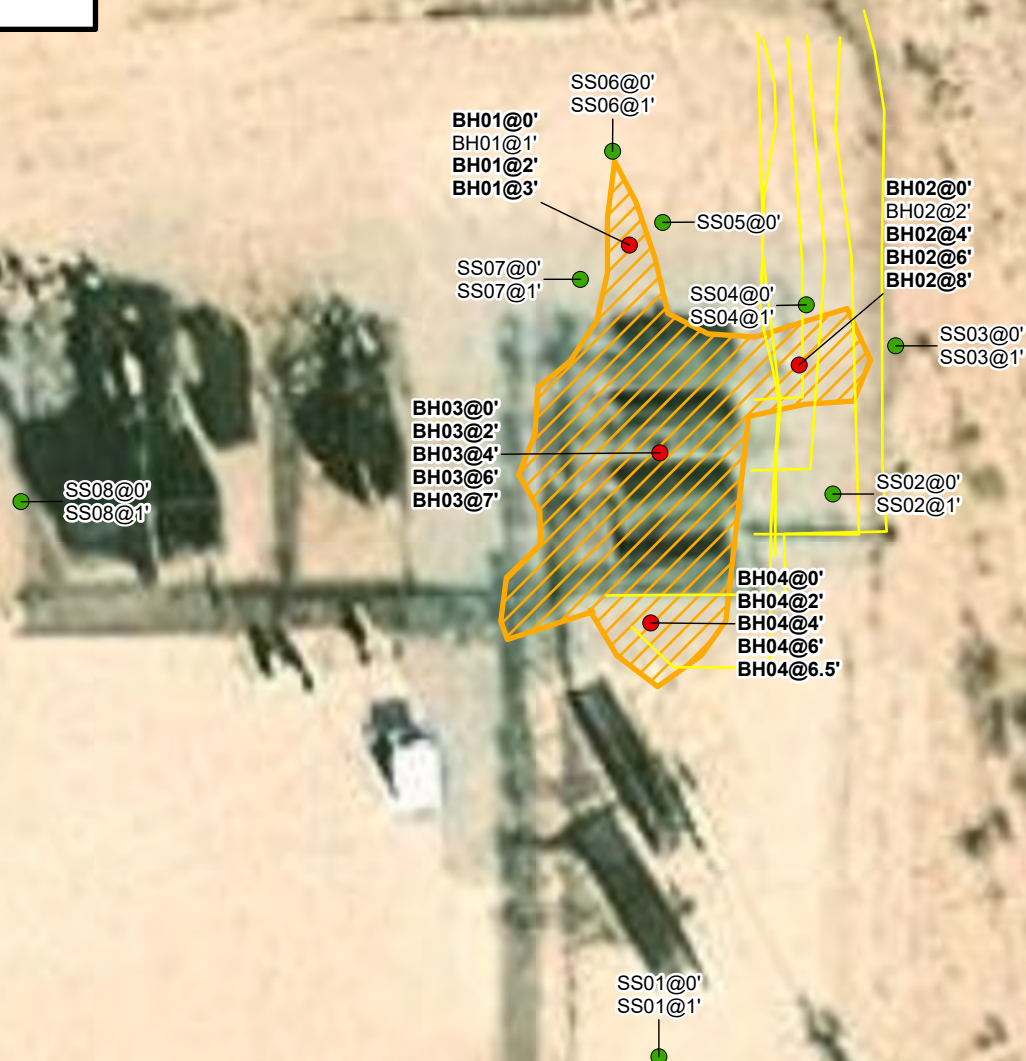
**Site Receptor Map**

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

FIGURE**1**

Legend

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



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

0 15 30 60
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Delineation 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

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

BG01@0'
BG01@1'
BG01@2'
BG01@3'
BG01@4'
BG01@5'
BG01@6'
BG01@7'

BG04@0'
BG04@1'
BG04@2'
BG04@3'
BG04@4'

BG03@0'
BG03@1'
BG03@2'
BG03@3'
BG03@4'
BG03@5'
BG03@6'
BG03@7'

BG02@0'
BG02@1'
BG02@2'
BG02@3'
BG02@4'
BG02@5'
BG02@6'
BG02@7'

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

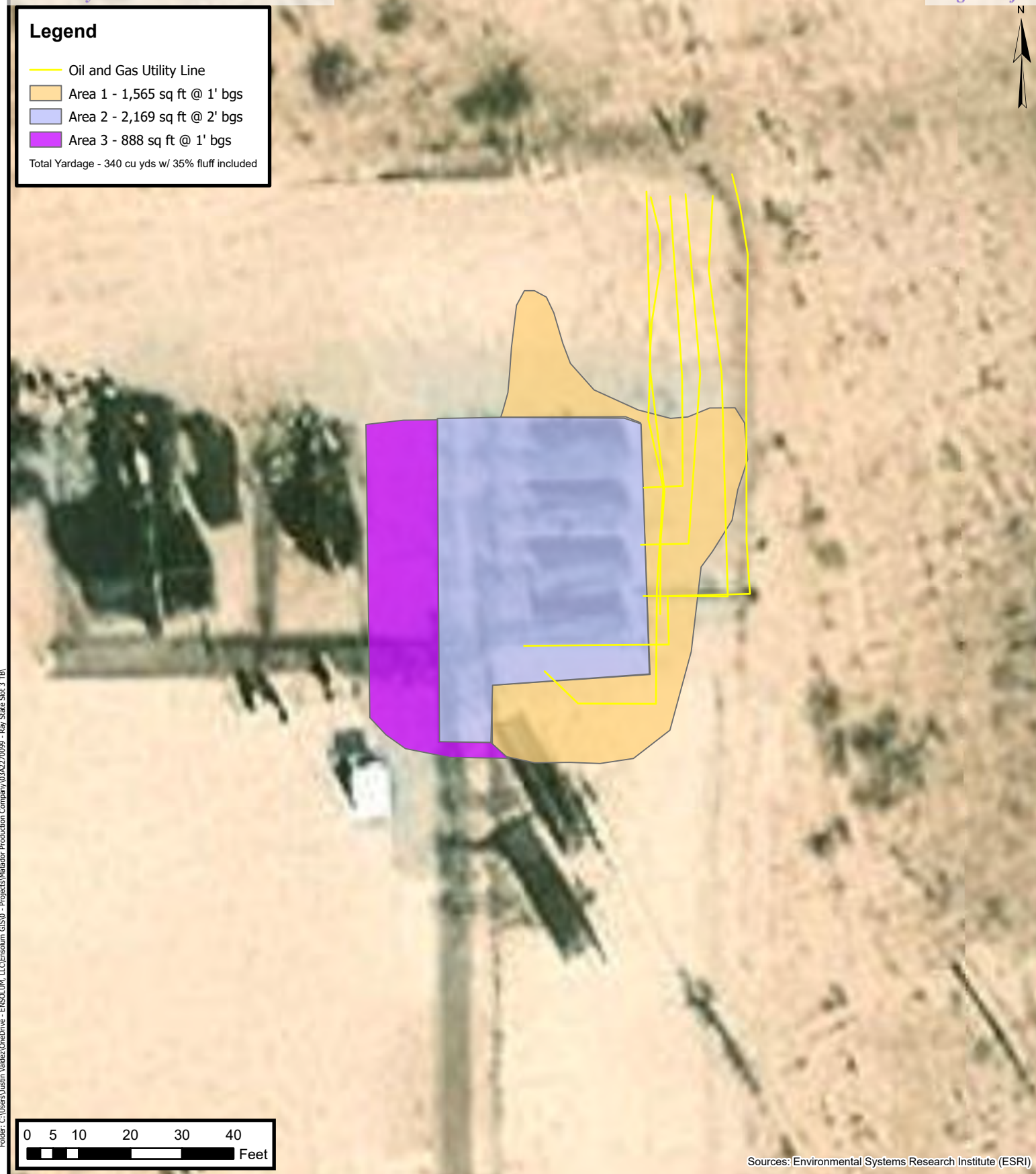
0 72.5 145 290
Feet

Sources: Environmental Systems Research Institute (ESRI)

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	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	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

1. GENERAL AND WELL LOCATION	OSE POD NO (WELL NO) POD1		WELL TAG ID NO NA		OSE FILE NO(S) C 4901 POD1		
	WELL OWNER NAME(S) Matador Production Company				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS R347 N26th Rural Street 2nd Floor				CITY Artesia	STATE NM	ZIP 88210
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 15	12.89	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LONGITUDE	104	03	23.87	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit B, Section 02, T 24S, R28E, Eddy County							

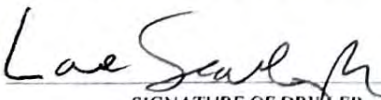
2. DRILLING & CASING INFORMATION	LICENSE NO WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc.		
	DRILLING STARTED 11/20/2024		DRILLING ENDED 11/20/2024		DEPTH OF COMPLETED WELL (FT) 55	BORE HOLE DEPTH (FT) 55	DEPTH WATER FIRST ENCOUNTERED (FT) 52	
	COMPLETED WELL IS: <input checked="" type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 16		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	5.00	Soil Boring				

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

FOR OSE INTERNAL USE

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


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


4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	10	10	Sandy Clay w/ Gypsum, White to Red, very fine to medium grained	Y ✓ N	
	10	15	5	Sandy Clay w/ Gypsum, Red to Medium Brown, very fine to medium grained	Y ✓ N	
	15	20	5	Inter-bedded Silty sand and Gypsum, Medium Brown to Red, fine to medium	Y ✓ N	
	20	30	10	Fat Clay w/ Gypsum, Dark to Medium Brown, fine to coarse grained	Y ✓ N	
	30	40	10	Inter-bedded Silty sand and Gypsum, Dark to Medium Brown, fine to medium	Y ✓ N	
	40	50	10	Inter-bedded Silty sand and Gypsum, Dark to Medium Brown, fine to medium	Y ✓ N	
	50	51	1	Clay, Dark to Medium Brown, very fine to fine grained	Y ✓ N	
	51	52	1	Gypsum, Clear to white, small to large crystals	Y ✓ N	
	52	55	3	Clay, Dark to Medium Brown, very fine to fine grained	✓ Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Scott Scarborough					
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 SIGNATURE OF DRILLER		Scott Scarborough PRINT SIGNEE NAME		12/13/2024 DATE	
FOR USE 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								
Coordinates: 32.255217, -104.044235			Logged By: Israel Estrella		Method: Hand Auger			
			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: BH02		Date: 6/4/25				
		Site Name: Ray State Slot 3 TB						
		Incident Number: nAPP2513253339						
		Job Number: 03A2270099						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.255166, -104.044100			Logged By: Israel Estrella		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 8 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	BH02	0	0		Pad Claiche - Lt Brown to White, Fine to Coarse w/ Some Small to Large Gravel, Non-Plastic, Noncohesive, Non-Uniform
M			N	BH02	1	1	CCHE	
M	660		N	BH02	2	2		Sand with Silt - Medium to Light Brown, Fine to Very Fine, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	660		N	BH02	3	3		
M	2,413		N	BH02	4	4		
M	2,587		N	BH02	5	5	SW-SM	
M	2,766		N	BH02	6	6		
M	1,204		N	BH02	7	7		
M	1,848		N	BH02	8	8		Sand with Silt - Medium to Light Brown, Fine to Very Fine w/ Trace Gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
Total Depth @ 8 feet bgs.								


								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	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			N	BH03	2	2					
M	1,607		N	BH03	3	3					
M	795		N	BH03	4	4					
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.											

								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	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			N	BH04	3	3						
M	1,848		N	BH04	4	4						
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 Petrofsg® 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		
M	ND		N	BG01	3	3		
M	224		N	BG01	4	4	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	296		N	BG01	5	5		
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								
Coordinates: 32.254388, -104.043498			Logged By: Israel Estrella		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 7 FT.			
Comments: Field screening conducted with HACH Chloride Test Strips and Petrofsg® 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	1,195	33	N	BG02	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	>3,413		N	BG02	1	1		
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	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	BG02	5	5		
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 Petrofig® 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	SM	Silty Sand - Medium to Light Brown, Fine to Very Fine w/ trace gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	3,414		N	BG03	1	1		
M	1,232		N	BG03	2	2		
M	1,233		N	BG03	3	3		
M	1,290		N	BG03	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	717		N	BG03	5	5		
M	534		N	BG03	6	6		
M	790		N	BG03	7	7		
Total Depth @ 7 feet bgs.								

					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 Petrofsg® 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	SM	Silty Sand - Medium to Light Brown, Fine to Very Fine w/ trace gravel, Moist, Non-Plastic, Non Cohesive, Massive, Well Graded.
M	1,712		N	BG04	1	1		
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



Photographic Log

Matador Production Company

Ray State Slot 3 TB

nAPP2513253339

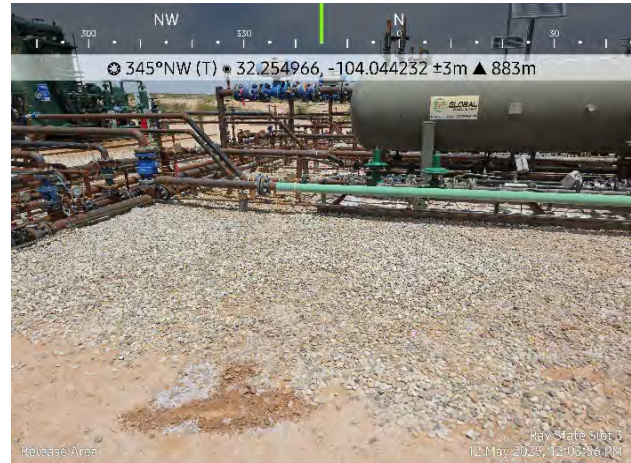


Photograph 1

Date: 5/19/2025

Description: Lease sign

View: Southeast

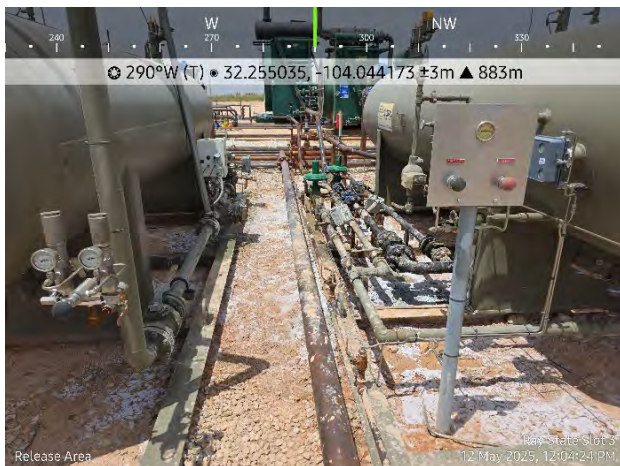


Photograph 2

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

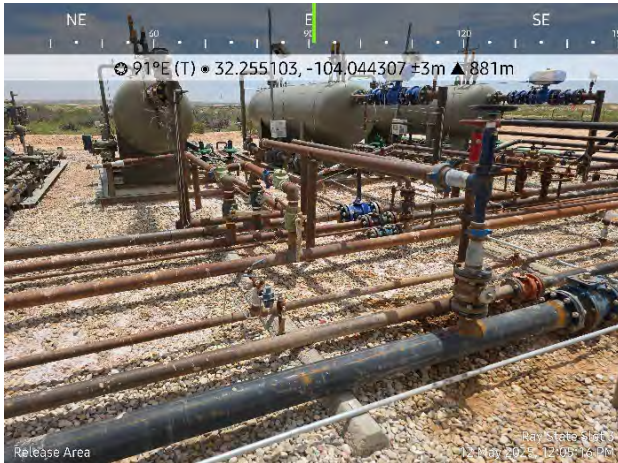


Photographic Log

Matador Production Company

Ray State Slot 3 TB

nAPP2513253339



Photograph 5

Date: 5/12/2025

Description: Release Area

View: East



Photograph 6

Date: 5/19/2025

Description: SS03

View: Northeast



Photograph 7

Date: 5/19/2025

Description: SS07

View: Southwest



Photograph 8

Date: 5/20/2025

Description: SS01

View: West



Photographic Log

Matador Production Company

Ray State Slot 3 TB

nAPP2513253339



Photograph 9

Date: 5/20/2025

Description: BH01

View: Southeast



Photograph 10

Date: 6/4/2025

Description: BH02

View: Southwest

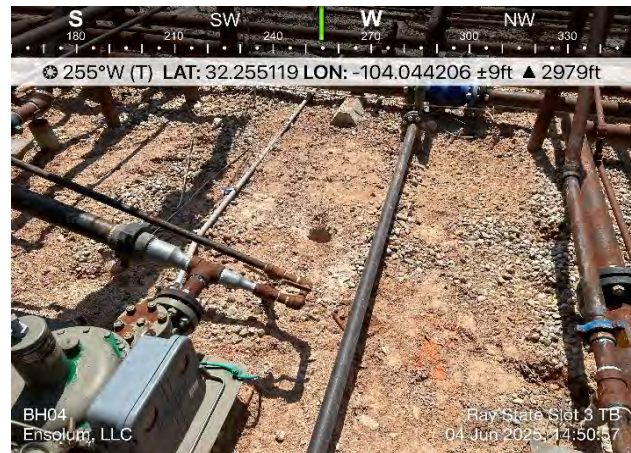


Photograph 11

Date: 6/4/2025

Description: BH03

View: Northwest



Photograph 12

Date: 6/4/2025

Description: BH04

View: West



Photographic Log

Matador Production Company

Ray State Slot 3 TB

nAPP2513253339



Photograph 13

Date: 6/25/2025

Description: BG01

View: Southwest



Photograph 14

Date: 6/25/2025

Description: BG02

View: North



Photograph 15

Date: 6/25/2025

Description: BG03

View: North



Photograph 16

Date: 6/25/2025

Description: BG04

View: South



Photographic Log

Matador Production Company

Ray State Slot 3 TB

nAPP2513253339



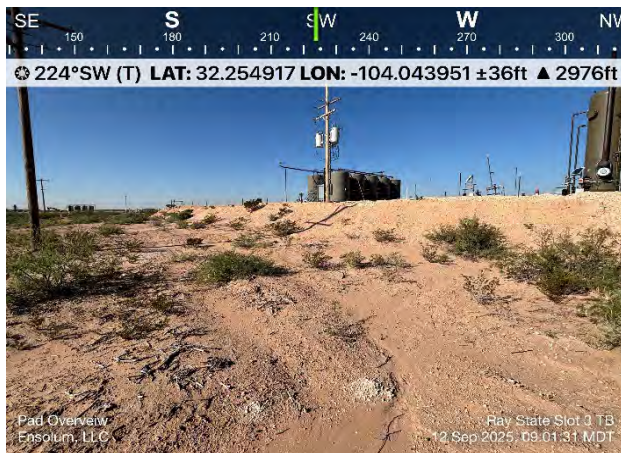
Photograph 17
Description: Pad Overview
View: Southeast

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



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

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/28/25

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS03-0'	5
SS03-1'	6
SS04-0'	7
SS04-1'	8
SS05-0'	9
SS06-0'	10
SS06-1'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

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
---	---	-----------------------------

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	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>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	105 %	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

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>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		105 %	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

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>						
		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	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	
<i>Surrogate: n-Nonane</i>						
		105 %	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

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>						
		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	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	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	05/21/25	05/24/25	
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

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>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	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	
<i>Surrogate: n-Nonane</i>		105 %	61-141	05/21/25	05/24/25	
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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		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	
<i>Surrogate: n-Nonane</i>						
		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.	Project Name:	Ray State Slot 3 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/28/2025 10:04:29AM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (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: E505233-06Prepared: 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: E505233-06Prepared: 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.	Project Name:	Ray State Slot 3 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/28/2025 10:04:29AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

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

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (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
---	---	---------------------------------------

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2521133-BLK1)						Prepared: 05/23/25 Analyzed: 05/23/25			
Chloride	ND	20.0							
LCS (2521133-BS1)						Prepared: 05/23/25 Analyzed: 05/23/25			
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2521133-MS1)				Source: E505231-03		Prepared: 05/23/25 Analyzed: 05/23/25			
Chloride	257	20.0	250	ND	103	80-120			
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	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Ray State Slot 3 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/28/25 10:04

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



Client Information				Invoice Information		Lab Use Only		TAT		State									
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		Job Number		1D	2D	3D	Std						
Project Name: <u>PayState Site 3 TB</u>				Address: 3122 National Parks Hwy		<u>E5052.33</u>		<u>23003-0002</u>					x						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information					Analysis and Method								EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
0905	Shams	Soil	1	S503-0'		1													
1333				03-1'		2													
0907				04-0'		3													
1337				04-1'		4													
0910				05-0'		5													
0917				06-0'		6													
1408				06-1'		7													
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, igonzales@ensolum.com, rrai@ensolum.com, oaderinto@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>Jenna Hinkle</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: O/N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 5/21/2025 9:23:22AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	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:	agiovento@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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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



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

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/28/25



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
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS07-1'	5
SS07-0'	6
QC Summary Data	7
QC - Volatile Organic Compounds by EPA 8260B	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	8
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	9
QC - Anions by EPA 300.0/9056A	10
Definitions and Notes	11
Chain of Custody etc.	12

Sample Summary

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
---	---	-----------------------------

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

SS07-1'

E505239-01

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>		92.9 %	70-130	05/21/25	05/28/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	05/21/25	05/28/25	
<i>Surrogate: Toluene-d8</i>		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	
<i>Surrogate: Bromofluorobenzene</i>		92.9 %	70-130	05/21/25	05/28/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.3 %	70-130	05/21/25	05/28/25	
<i>Surrogate: Toluene-d8</i>		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	
<i>Surrogate: n-Nonane</i>		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

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	
Surrogate: Bromofluorobenzene		106 %	70-130	05/21/25	05/28/25	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	05/21/25	05/28/25	
Surrogate: Toluene-d8		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	
Surrogate: Bromofluorobenzene		106 %	70-130	05/21/25	05/28/25	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	05/21/25	05/28/25	
Surrogate: Toluene-d8		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	
Surrogate: n-Nonane		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.	Project Name:	Ray State Slot 3 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/28/2025 4:17:30PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (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							
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-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			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	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			
Surrogate: Bromofluorobenzene	0.481		0.500		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	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	
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			



QC Summary Data

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

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

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

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (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
---	---	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2521134-BLK1)					Prepared: 05/23/25 Analyzed: 05/23/25				
Chloride	ND	20.0							
LCS (2521134-BS1)					Prepared: 05/23/25 Analyzed: 05/23/25				
Chloride	253	20.0	250		101	90-110			
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			
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	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Ray State Slot 3 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/28/25 16:17

- 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								
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std		NM CO UT TX								
Project Name: <u>Ray State Silt 3 TB</u>				Address: 3122 National Parks Hwy		<u>E505239</u>		<u>2308-0002</u>		x								
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	RGDOC - NM	RGDOC - TX	SDWA	CWA	RCRA
1452	5/14/25	Soil	1	SS07-1'		1												
1255	5/14/25	Soil	1	SS07-0'		2												
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, igonzales@ensolum.com, rrai@ensolum.com, oaderinto@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>Jenna Hinkle</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.								
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time									
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time									
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time									
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	Lab Use Only								
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	Received on ice: <u>Y</u> /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

Printed: 5/21/2025 9:53:25AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	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:	agiovento@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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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



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: 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,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS01-0'	5
SS01-1'	6
SS02-0'	7
SS02-1'	8
SS08-0'	9
SS08-1'	10
BH01-0'	11
BH01-1'	12
BH01-2'	13
QC Summary Data	14
QC - Volatile Organics by EPA 8021B	14
QC - Nonhalogenated Organics by EPA 8015D - GRO	15
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	16
QC - Anions by EPA 300.0/9056A	17
Definitions and Notes	18
Chain of Custody etc.	19

Sample Summary

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
---	---	-----------------------------

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

SS01-0'

E505247-01

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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

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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		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	
<i>Surrogate: n-Nonane</i>						
		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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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.	Project Name:	Ray State Slot 3 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2025 10:48:30AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

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

Nonhalogenated Organics by EPA 8015D - GRO

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

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

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

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

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2521137-BLK1)					Prepared: 05/23/25 Analyzed: 05/23/25				
Chloride	ND	20.0							
LCS (2521137-BS1)					Prepared: 05/23/25 Analyzed: 05/23/25				
Chloride	259	20.0	250		103	90-110			
Matrix Spike (2521137-MS1)					Source: E505247-03		Prepared: 05/23/25 Analyzed: 05/23/25		
Chloride	272	20.0	250	ND	109	80-120			
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	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Ray State Slot 3 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/29/25 10:48

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Client Information				Invoice Information		Lab Use Only		TAT		State									
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E 505247		Job Number 23003-0002		<table border="1"> <tr> <td>1D</td> <td>2D</td> <td>3D</td> <td>Std</td> </tr> <tr> <td></td> <td></td> <td></td> <td>X</td> </tr> </table>		1D	2D	3D	Std				X
1D	2D	3D	Std																
			X																
Project Name: Bay State St 3TB				Address: 3122 National Parks Hwy						<table border="1"> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>TX</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> </tr> </table>		NM	CO	UT	TX	X			
NM	CO	UT	TX																
X																			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information						Analysis and Method						EPA Program							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1311	5/21/25	S&I	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													
1509				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, igonzales@ensolum.com, rrai@ensolum.com, oaderinto@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: Jenna Hinkle																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							
Jenna Hinkle		5/21/25		6:57		Michelle Gonzalez		5-21-25		0657									
Michelle Gonzalez		5-21-25		1615		Jenna Hinkle		5-21-25		1645									
Jenna Hinkle		5-21-25		2300		Carla Moore		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

Printed: 5/22/2025 7:39:11AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/22/25 06:45	Work Order ID:	E505247
Phone:	(972) 371-5200	Date Logged In:	05/21/25 14:33	Logged In By:	Caitlin Mars
Email:	agiovento@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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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



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: 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
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
BH01-3'	6
BH02-0'	7
BH02-2'	8
BH02-4'	9
BH02-6'	10
BH02-8'	11
BH03-0'	12
BH03-2'	13
BH03-4'	14
BH03-6'	15
BH03-7'	16
BH04-0'	17
BH04-2'	18
BH04-4'	19
BH04-6'	20
BH04-6.5'	21
QC Summary Data	22
QC - Volatile Organics by EPA 8021B	22
QC - Nonhalogenated Organics by EPA 8015D - GRO	23
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	24

Table of Contents (continued)

QC - Anions by EPA 300.0/9056A	25
Definitions and Notes	26
Chain of Custody etc.	27

Sample Summary

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
---	---	-----------------------------

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

BH01-3'

E506035-01

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>		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

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>		108 %	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>		86.0 %	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	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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

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>		105 %	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>		91.2 %	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>		103 %	61-141	06/06/25	06/07/25	
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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<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	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

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>						
		105 %	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>						
		94.8 %	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	
<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	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

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>						
		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.3 %	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	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	06/06/25	06/07/25	
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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<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	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

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>		105 %	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>		90.9 %	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>		107 %	61-141	06/06/25	06/07/25	
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

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>		105 %	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>		92.0 %	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>		105 %	61-141	06/06/25	06/07/25	
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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		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	
<i>Surrogate: n-Nonane</i>						
		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

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>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %	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>		107 %	61-141	06/06/25	06/07/25	
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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		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	
<i>Surrogate: n-Nonane</i>						
		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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		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	
<i>Surrogate: n-Nonane</i>						
		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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		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	
<i>Surrogate: n-Nonane</i>						
		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.	Project Name:	Ray State Slot 3 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/12/2025 8:52:19AM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (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.	Project Name:	Ray State Slot 3 TB	Reported: 6/12/2025 8:52:19AM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (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.	Project Name:	Ray State Slot 3 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/12/2025 8:52:19AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

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

Blank (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
---	---	---

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2523152-BLK1)

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

Chloride	ND	20.0
----------	----	------

LCS (2523152-BS1)

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

Chloride	250	20.0	250	100	90-110
----------	-----	------	-----	-----	--------

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
----------	------	------	-----	------	------	--------

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
----------	------	------	-----	------	------	--------	------	----	----

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Ray State Slot 3 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/12/25 08:52

- 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		E506035	23003-0002				X	X																																																		
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220		<table border="1"> <thead> <tr> <th colspan="8">Analysis and Method</th> <th colspan="3">EPA Program</th> </tr> <tr> <th rowspan="2">DRO/DRO by 8015</th> <th rowspan="2">GRO/DRO by 8015</th> <th rowspan="2">BTX by 8021</th> <th rowspan="2">VOC by 8260</th> <th rowspan="2">Chloride 300.0</th> <th rowspan="2">TCEQ 1005 - TX</th> <th rowspan="2">RCRA 8 Metals</th> <th rowspan="2">BGDOC - NM</th> <th rowspan="2">BGDOC - TX</th> <th>SDWA</th> <th>CWA</th> <th>RCRA</th> </tr> <tr> <th>Compliance</th> <th>Y</th> <th>or</th> <th>N</th> </tr> </thead> <tbody> <tr> <td colspan="9"></td> <td>PWSID #</td> <td colspan="2"></td> </tr> <tr> <td colspan="9"></td> <td>Sample Temp</td> <td colspan="2">Remarks</td> </tr> </tbody> </table>						Analysis and Method								EPA Program			DRO/DRO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	Compliance	Y	or	N										PWSID #												Sample Temp	Remarks	
Analysis and Method												EPA Program																																																		
DRO/DRO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX							RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA																																													
						Compliance	Y	or	N																																																					
									PWSID #																																																					
									Sample Temp	Remarks																																																				
Address: 3122 National Parks Hwy				Phone: 575-988-0055																																																										
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																																																										
Phone: 575-988-0055				Miscellaneous:																																																										
Email: agiovengo@ensolum.com																																																														
Sample Information																																																														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number							Sample Temp	Remarks																																																
945	6/4/25	soil	1	BH01-3'		1								X	3.9																																															
949				02-0'		2								X	2.7																																															
958				02-2'		3								X	2.9																																															
1252				02-4'		4								X	4.4																																															
1326				02-6'		5								X	2.3																																															
1408				02-7'		6								X	2.1																																															
1000				03-0'		7								X	4.0																																															
1012				03-2'		8								X	3.9																																															
1255				03-4'		9								X	4.4																																															
1334				03-6'		10								X	4.8																																															
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: 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. Lab Use Only Received on ice: 0/N																																																		
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																																																				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																																																				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																																																				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																																																				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																																																				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																																																														
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																																																														
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																																														



Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT		State									
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX				
Project Name: Ray State Slot 3 TB				Address: 3122 National Parks Hwy		ES06035	23003-0002				X	X							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1336	6/4/25	Soil	1	BH03-7'		11								X					
1020				BH04-0'		12								X					
1028				04-2'		13								X					
1102				04-4'		14								X					
1340				04-6'		15								X					
1342				04-6.5'		16								X					
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. Lab Use Only Received on ice: (Y) N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 6/6/2025 9:45:25AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Visible whiteout on COC.

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



envirotech Inc.



Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT		State									
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	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:															
Email: agiovengo@ensolum.com																			
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCED 1005 - TX	RCRA 8 Metals	BODOC - NM	BODOC - TX	SDWA	CWA	RCRA	
945	6/4/25	soil	1	BIT01-3'		1								X					
949				02-0'		2								X					
958				02-2'		3								X					
1252				02-4'		4								X					
1326				02-6'		5								X					
1408				02-7 th 8'		6								X					
1000				03-0'		7								X					
1012				03-2'		8								X					
1255				03-4'		9								X					
1334	✓	✓	✓	✓ 03-6'		10								X					
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)		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>0</u> / N							
<u>Michelle Gonzales</u>		6/5/25		7:11		<u>Michelle Gonzales</u>		6.5.25		0711									
<u>Michelle Gonzales</u>		6.5.25		1615		<u>Michelle M.</u>		6.5.25		1615									
<u>Michelle 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.																			



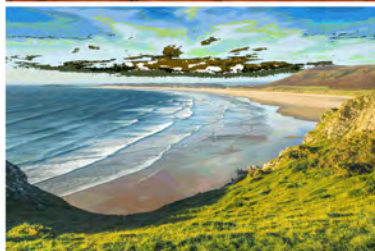
Chain of Custody

Page 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT		State									
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX				
Project Name: Ray State Slot 3 TB				Address: 3122 National Parks Hwy		ES06035	23003-0002				X	X							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCED 1005 - TX	RCRA 8 Metals	BIGDOC - NM	BIGDOC - TX	SDWA	CWA	RCRA	
1336	6/4/25	soil	1	BH03-7'		11								X					
1020				BH04-0'		12								X					
1028				04-2'		13								X					
1102				04-4'		14								X					
1340				04-6'		15								X					
1342				04-6.5'		16								X					
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. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
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

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 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,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
BG01-0'	6
BG01-1'	7
BG01-2'	8
BG01-3'	9
BG01-4'	10
BG01-5'	11
BG01-6'	12
BG01-7'	13
BG02-0'	14
BG02-1'	15
BG02-2'	16
BG02-3'	17
BG02-4'	18
BG02-5'	19
BG02-6'	20
BG02-7'	21
QC Summary Data	22
QC - Volatile Organics by EPA 8021B	22
QC - Nonhalogenated Organics by EPA 8015D - GRO	23
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	24

Table of Contents (continued)

QC - Anions by EPA 300.0/9056A	25
Definitions and Notes	26
Chain of Custody etc.	27

Sample Summary

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

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

BG01-0'

E506269-01

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	
<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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		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	
<i>Surrogate: n-Nonane</i>						
		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.	Project Name:	Ray State Slot 3 TB	Reported: 7/3/2025 1:06:45PM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Volatile Organics by EPA 8021B

Analyst: BA

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

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

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

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

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

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

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2527048-BLK1)					Prepared: 07/01/25 Analyzed: 07/02/25				
Chloride	ND	20.0							
LCS (2527048-BS1)					Prepared: 07/01/25 Analyzed: 07/02/25				
Chloride	251	20.0	250		100	90-110			
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
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

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

Definitions and Notes

Matador Resources, LLC.	Project Name:	Ray State Slot 3 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/03/25 13:06

- 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.



23003-0002 On 6/27/25

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		E506269	01055				X	X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA
9:29	6/25/2025	Soil	1	BG01-0'		1								X				
9:32	6/25/2025	Soil	1	BG01-1'		2								X				
9:33	6/25/2025	Soil	1	BG01-2'		3								X				
9:35	6/25/2025	Soil	1	BG01-3'		4								X				
9:40	6/25/2025	Soil	1	BG01-4'		5								X				
9:42	6/25/2025	Soil	1	BG01-5'		6								X				
9:46	6/25/2025	Soil	1	BG01-6'		7								X				
10:15	6/25/2025	Soil	1	BG01-7'		8								X				
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)	Date	Time	Received by: (Signature)	Date	Time	<p>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.</p> <p>Lab Use Only</p> <p>Received on ice: (Y/N)</p>												
Michelle Gonzales	6-26-25	7:18	Michelle Gonzales	6-26-25	0718													
Michelle Gonzales	6-26-25	1620	Michelle Gonzales	6-26-25	1620													
Michelle Gonzales	6-26-25	2300	Michelle Gonzales	6-27-25	700													
Michelle Gonzales			Michelle Gonzales															
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.																		

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				E5102109		23003002					x	x					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																	
Address: 3122 National Parks Hwy				Phone: 575-988-0055																	
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																	
Phone: 575-988-0055				Miscellaneous:																	
Email: agiovengo@ensolum.com																					
Sample Information							Analysis and Method										EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
																		Compliance	Y	or	N
																		PWSID #			
																		Sample Temp			Remarks
11:42	6/25/2025	Soil	1	BG02-0'		9									x			1.0			
11:45	6/25/2025	Soil	1	BG02-1'		10									x			0.9			
11:47	6/25/2025	Soil	1	BG02-2'		11									x			1.1			
11:48	6/25/2025	Soil	1	BG02-3'		12									x			1.1			
12:12	6/25/2025	Soil	1	BG02-4'		13									x			1.6			
12:15	6/25/2025	Soil	1	BG02-5'		14									x			2.0			
12:18	6/25/2025	Soil	1	BG02-6'		15									x			2.1			
12:20	6/25/2025	Soil	1	BG02-7'		16									x			1.8			
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: Gus Sanchez																					
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: Y / N									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																					
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					

Envirotech Analytical Laboratory

Printed: 6/27/2025 12:52:42PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/27/25 07:00	Work Order ID:	E506269
Phone:	(972) 371-5200	Date Logged In:	06/26/25 16:12	Logged In By:	Caitlin Mars
Email:	agiovento@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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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



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: E506284

Job Number: 23003-0002

Received: 6/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/7/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 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
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BG03-0'	5
BG03-1'	6
BG03-2'	7
BG03-3'	8
BG03-4'	9
BG03-5'	10
BG03-6'	11
BG03-7'	12
QC Summary Data	13
QC - Volatile Organics by EPA 8021B	13
QC - Nonhalogenated Organics by EPA 8015D - GRO	14
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	15
QC - Anions by EPA 300.0/9056A	17
Definitions and Notes	18
Chain of Custody etc.	19

Sample Summary

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

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

BG03-0'

E506284-01

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>	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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>		101 %	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>		98.1 %	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	07/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/03/25	
<i>Surrogate: n-Nonane</i>		98.4 %	61-141	06/30/25	07/03/25	
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

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>						
		102 %	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>						
		97.6 %	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	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	06/30/25	07/03/25	
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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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.	Project Name:	Ray State Slot 3 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/7/2025 4:30:40PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

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

Nonhalogenated Organics by EPA 8015D - GRO

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

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

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

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

Blank (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.	Project Name:	Ray State Slot 3 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/7/2025 4:30:40PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

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

Blank (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.	Project Name:	Ray State Slot 3 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/7/2025 4:30:40PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2527080-BLK1)					Prepared: 07/02/25 Analyzed: 07/03/25				
Chloride	ND	20.0							
LCS (2527080-BS1)					Prepared: 07/02/25 Analyzed: 07/03/25				
Chloride	256	20.0	250		103	90-110			
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
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

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Ray State Slot 3 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/07/25 16:30

- 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.

Page 164 of 206

Envirotech Analytical Laboratory

Printed: 6/30/2025 9:27:29AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	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:	agiovento@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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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



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: E506283

Job Number: 23003-0002

Received: 6/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/7/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 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
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BG04-0'	5
BG04-1'	6
BG04-2'	7
BG04-3'	8
BG04-4'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	13
Definitions and Notes	14
Chain of Custody etc.	15

Sample Summary

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
---	---	-----------------------------

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

BG04-0'

E506283-01

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	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	
<i>Surrogate: n-Nonane</i>						
	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.	Project Name:	Ray State Slot 3 TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/7/2025 11:51:16AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

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

Nonhalogenated Organics by EPA 8015D - GRO

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

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

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

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

Blank (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
---	---	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2527080-BLK1)					Prepared: 07/02/25 Analyzed: 07/03/25				
Chloride	ND	20.0							
LCS (2527080-BS1)					Prepared: 07/02/25 Analyzed: 07/03/25				
Chloride	256	20.0	250		103	90-110			
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
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

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Ray State Slot 3 TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/07/25 11:51

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

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

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



[illegible]

Envirotech Analytical Laboratory

Printed: 6/30/2025 9:22:11AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/28/25 09:30	Work Order ID:	E506283
Phone:	(972) 371-5200	Date Logged In:	06/27/25 15:23	Logged In By:	Caitlin Mars
Email:	agiovento@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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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



envirotech Inc.



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 

From: [Wells, Shelly, EMNRD](#)
To: [Chad Hamilton](#)
Cc: [Jason Touchet](#); [Ashley Giovengo](#); [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 was told 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 

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 

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

in f 

From: [Chad Hamilton](#)
To: [Wells, Shelly, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Enviro, OCD, EMNRD](#)
Cc: [Casey Snow](#); [Jason Touchet](#); [Ashley Giovengo](#)
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_fig4_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

in f 

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

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 12/01/2025
--	--

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.

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 4

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)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	<i>Not answered.</i>
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Lea Land 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>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 12/01/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 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

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 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	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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

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