



November 5, 2025

New Mexico Energy Minerals and Natural Resources Department

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

**Re: Closure Request
Dr. Ireland State 16 139 Well Pad
Incident Number nAPP2504029640
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, and soil sampling activities at the Dr. Ireland State 16 139 Well Pad (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following the release of drilling mud at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, delineation, and confirmation sampling activities that have occurred and requesting no further action for Incident Number nAPP2504029640.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 21, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.29538°, -104.08944°) and is associated with oil and gas exploration and production operations on Private Land.

On February 8, 2025, an overflow of a drilling mud storage tank occurred resulting in the release of 42 barrels (bbls) of drilling mud on pad; 32 bbls of drilling mud were recovered. Matador submitted a Notification of Release (NOR) on February 9, 2025 and an Initial C-141 Report (C-141) on February 10, 2025. The C-141 can be referenced on the New Mexico Oil Conservation Division (NMOCD) Portal.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data within 25 years is Office of the State Engineer (OSE) well C 3762 POD1, located approximately 2,217 feet northwest of the Site. The well had a reported depth to groundwater of 31 feet below ground surface (bgs). There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation to suggest the Site is conducive to shallower groundwater. All wells used for depth to

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groundwater determinations are presented on Figure 1. The referenced well record and log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an irrigation canal, located approximately 973 feet west 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 Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

Beginning on February 10, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Preliminary soil samples (SS01 through SS09) were collected at ground surface and 1-foot bgs to assess the lateral extent of the release area. One borehole and six potholes (PH01 through PH07) were advanced within the release extent to assess the vertical extent of impacted soil; borehole PH01 was advanced to a depth of 8 feet bgs via hand auger, pothole PH02 was advanced to a depth of 2 feet bgs, potholes PH03 and PH06 were advanced to a depth of 7 feet bgs, pothole PH04 was advanced to a depth of 15 feet bgs, pothole PH05 was advanced to a depth of 9 feet bgs, and pothole PH07 was advanced to a depth of 10 feet bgs. Potholes PH02 through PH07 were advanced via backhoe.

The preliminary soil samples and boreholes were field screened for chloride and TPH utilizing Hatch® QuanTab® chloride test strips and a PetroFLAG® Soil Analyzer System, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. Photographs from delineation activities can be referenced in the Photolog in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chain-of-custody procedures to Envirotech Analysis Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-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.

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EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Based on laboratory analytical results from vertical delineation, impacted soil was confirmed within the release extent, which required remedial action. Beginning on September 15, 2025, Ensolum personnel were on Site to complete excavation of impacted soil within the release area. Impacted and waste-containing soil was excavated via hydro-vac, trackhoe, front-end loader, hand tools, and dump trucks from the release extent as indicated by delineation soil sampling results. Excavation activities occurred on the west side of the caliche pad and around associated production equipment. To direct excavation activities, Ensolum personnel screened soil for TPH and chloride.

Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing at most, 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS406 were collected from the floor of the excavation at depths ranging from 0.5 feet to 11 feet bgs. Fifty-two confirmation sidewall soil samples (SW01 through SW52) were collected from the sidewalls of the excavation. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 80,189 square feet. A total of approximately 13,126 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land Disposal.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 through SS09 indicated COCs were all in compliance with the strictest Closure Criteria at ground surface and 1-foot bgs. Laboratory analytical results for soils remaining in place at the pothole sample locations at the Site indicated all COCs were in compliance with the strictest Closure Criteria per NMOC Table 1 (6 feet bgs at PH01, 1-foot bgs at PH02, 5 feet bgs at PH03 and PH06, 11 feet bgs at PH04, 9 feet bgs at PH05, and 8 feet bgs at PH07).

Laboratory analytical results for confirmation floor soil samples FS01 through FS406 indicated COC concentrations were all in compliance with the Strictest Closure Criteria at depths ranging from 0.5 feet bgs to 11 feet bgs. Laboratory analytical results for confirmation sidewall soil samples SW01 through SW52 indicated COC concentrations were all in compliance with the Strictest Closure Criteria at depths ranging from 0.5 feet bgs to 11 feet bgs. Laboratory analytical results are summarized in Tables 1, 2, and 3, and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

The release extent has been laterally defined in accordance with the strictest Closure Criteria by delineation soil samples SS01 through SS09, collected at ground surface and 1-foot bgs, and sidewall soil samples SW01 through SW04, SW07 through SW09, SW13, SW29 through SW32, SW35, SW36, SW40, SW41, SW47, SW48, SW51, and SW52, collected at depths ranging from ground surface to 9 feet bgs. The release extent has been vertically defined in accordance with the strictest Closure Criteria by delineation potholes PH01 through PH07, collected at depths ranging from 1-foot bgs to 11 feet bgs, and confirmation excavation floor samples FS01 through FS406, collected at depths ranging from 0.5 feet bgs and 11 feet bgs, which were all in compliance with the Strictest Closure Criteria.

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Based on the remedial actions completed to date, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2504029640.

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

Sincerely,
Ensolum, LLC

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

Chad Hamilton
Project Geologist

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

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

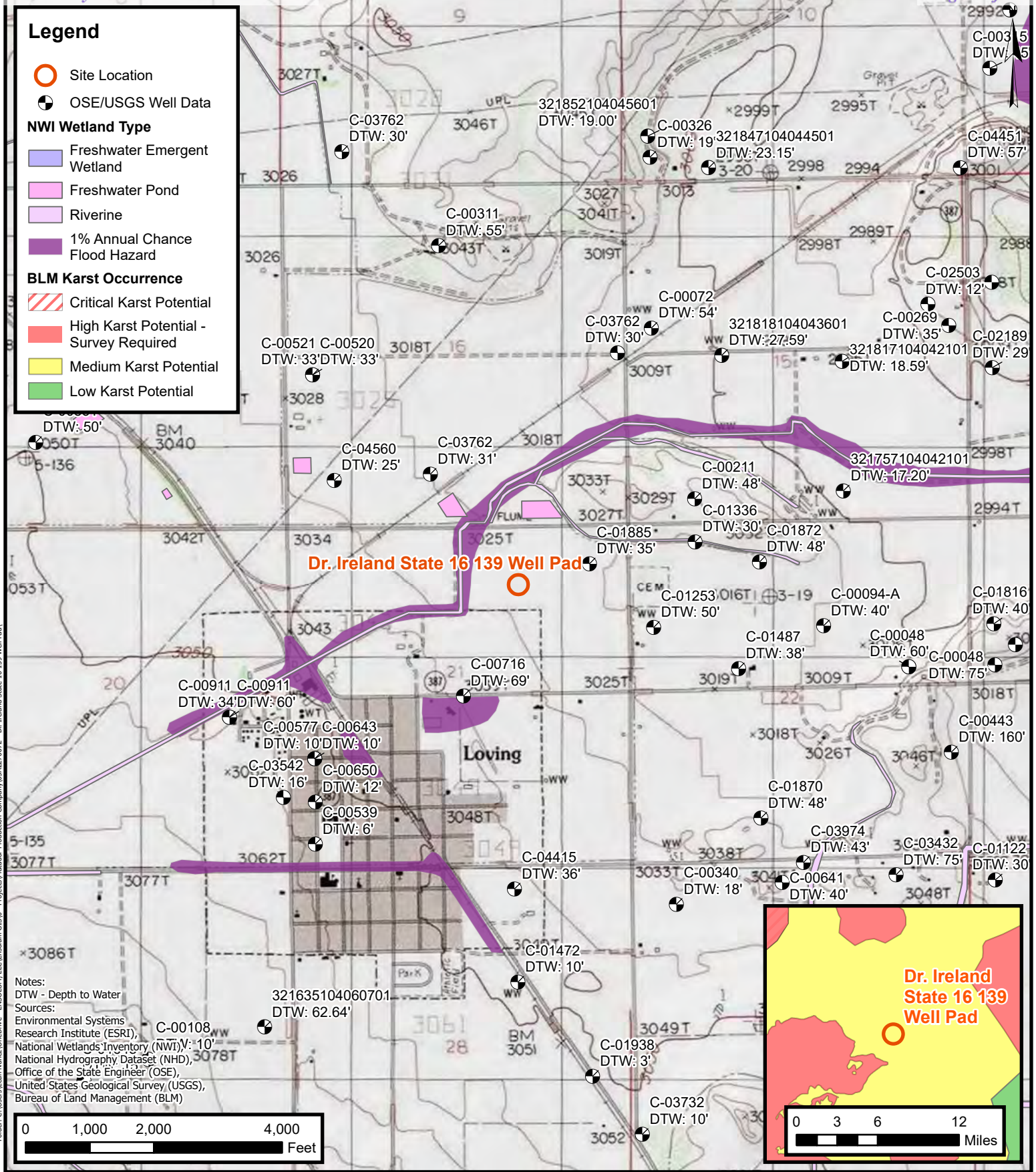
cc: Jason Touchet, Matador

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Floor Soil Samples)
Table 3	Soil Sample Analytical Results (Excavation Sidewall Soil Samples)
Appendix A	Well Log and Record
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody
Appendix E	NMOCD Correspondence



FIGURES





ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Site Receptor Map

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Incident Number: nAPP2504029640
Unit B, Section 21, T 23S, R 28E
Eddy County, New Mexico

FIGURE

1



Delineation Soil Sample Locations

Matador Production Company
Dr. Ireland State 16 139 Well Pad
Incident Number: nAPP2504029640
Unit B, Section 21, T 23S, R 28E
Eddy County, New Mexico

FIGURE

2





TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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	4/21/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	348
SS01	4/21/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	368
SS02	4/23/2025	0	<0.0250	<0.0500	<20.0	31.2	<50.0	31.2	31.2	530
SS02	4/23/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	358
SS03	4/23/2025	0	<0.0250	<0.0500	<20.0	37.6	51.3	37.6	51.3	224
SS03	4/23/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	348
SS04	4/23/2025	0	<0.0250	<0.0500	<20.0	36.5	<50.0	36.5	36.5	236
SS04	4/23/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SS05	4/23/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
SS05	4/23/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	101
SS06	4/23/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	135
SS06	4/23/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SS07	4/22/2025	0	<0.0250	<0.0500	<20.0	38.5	<50.0	38.5	<50.0	145
SS07	4/22/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	355
SS08	4/22/2025	0	<0.0250	<0.0500	<20.0	56.8	<50.0	56.8	<50.0	179
SS08	4/22/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	189
SS09	4/23/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
SS09	4/23/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	491
PH01	8/1/2025	0	<0.0250	<0.0500	<20.0	2,720	520	2,720	3,240	2,790
PH01	8/1/2025	0.5	<0.0250	<0.0500	20.4	<25.0	<50.0	<25.0	<50.0	1,160
PH01	8/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,920
PH01	8/1/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,970
PH01	8/1/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,290
PH01	8/1/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	754
PH01	8/1/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	478
PH01	8/1/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	531
PH02	7/10/2025	0	<0.0250	<0.0500	<20.0	56.8	220	56.8	276.8	474
PH02	7/10/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	573
PH02	7/10/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	245
PH03	7/10/2025	0	<0.0250	<0.0500	<20.0	1,060	<50.0	1,060	1,060	3,240
PH03	7/10/2025	1	<0.0250	1.159	34.2	1,830	<50.0	1,830	1,830	2,460
PH03	7/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	830
PH03	7/10/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	537



TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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										
PH03	7/10/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	457
PH04	7/10/2025	0	<0.0250	2.5525	48.5	9,370	<50.0	9,370	9,370	936
PH04	7/10/2025	1	<0.0250	3.7240	55.9	8,590	<50.0	8,590	8,590	1,190
PH04	7/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	812
PH04	7/10/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,020
PH04	7/10/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	910
PH04	7/10/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	799
PH04	7/10/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	577
PH04	7/10/2025	13	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	600
PH04	7/10/2025	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	314
PH05	7/11/2025	0	<0.0250	<0.0500	<20.0	3,500	553	3,500	4,053	730
PH05	7/11/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	674
PH05	7/11/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	941
PH05	7/11/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	768
PH05	7/11/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	901
PH05	7/11/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	444
PH06	7/11/2025	0	<0.0250	<0.0500	<20.0	4,050	67.3	4,050	4,117	125
PH06	7/11/2025	1	<0.0250	<0.0500	23.7	<25.0	<50.0	<25.0	<50.0	2,750
PH06	7/11/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	700
PH06	7/11/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	465
PH06	7/11/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	576



TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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										
PH07	7/11/2025	0	<0.0250	<0.0500	<20.0	278	76.3	278	354	340
PH07	7/11/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	268
PH07	7/11/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,010
PH07	7/11/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	883
PH07	7/11/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	593
PH07	7/11/2025	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	462

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS01	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	301
FS02	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS03	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	263
FS04	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	268
FS05	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	90.8
FS06	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	244
FS07	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	94.5
FS08	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	218
FS09	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	88.6
FS10	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	184
FS11	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	226
FS12	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	237
FS13	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	138
FS14	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	145
FS15	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	150
FS16	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	141
FS17	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	198
FS18	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	181
FS19	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	218
FS20	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	106
FS21	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	67.2
FS22	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	47.5
FS23	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	180
FS24	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	277
FS25	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	341
FS26	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	321
FS27	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	326
FS28	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	173
FS29	10/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	191
FS30	10/8/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	61.7
FS31	10/8/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	176
FS32	10/8/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	176
FS33	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	61.2

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS34	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	99.6
FS35	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	143
FS36	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	89.2
FS37	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	123
FS38	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	54.8
FS39	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	98.6
FS40	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	122
FS41	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	126
FS42	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	112
FS43	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	106
FS44	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	93.0
FS45	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	129
FS46	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	130
FS47	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	131
FS48	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	103
FS49	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	124
FS50	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	140
FS51	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	109
FS52	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	102
FS53	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	99.3
FS54	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	128
FS55	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	107
FS56	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	87.3
FS57	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	98.1
FS58	10/10/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	110
FS59	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	158
FS60	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	36.4
FS61	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	118
FS62	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	75.5
FS63	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	157
FS64	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	120
FS65	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	98.5
FS66	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	82.8

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS67	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	171
FS68	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	191
FS69	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	75.1
FS70	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	79.1
FS71	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	189
FS72	10/10/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	120
FS73	10/8/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	150
FS74	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	365
FS75	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	335
FS76	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	113
FS77	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	134
FS78	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	379
FS79	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	116
FS80	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	302
FS81	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	172
FS82	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	128
FS83	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	352
FS84	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	102
FS85	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	140
FS86	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	135
FS87	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	349
FS88	10/7/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	163
FS89	10/1/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	309
FS90	10/1/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	235
FS91	9/26/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	427
FS92	10/1/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	317
FS93	10/1/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	135
FS94	10/1/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	110
FS95	10/1/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	315
FS96	10/1/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	82.6
FS97	10/1/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	147
FS98	10/1/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	453
FS99	10/1/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	105

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS100	10/1/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	97.5
FS101	10/1/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	102
FS102	9/26/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	444
FS103	9/26/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS104	9/26/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	282
FS105	9/26/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS106	9/26/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	413
FS107	9/26/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	274
FS108	9/26/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222
FS109	9/26/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	297
FS110	9/26/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222
FS111	9/26/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	242
FS112	10/3/2025	11	<0.0250	<0.0500	<20.0	134	<50.0	134	134	463
FS112	10/14/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	179
FS113	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	177
FS114	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	183
FS115	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	303
FS116	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	175
FS117	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	210
FS118	10/3/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	129
FS119	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	69.9
FS120	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	99.0
FS121	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	118
FS122	10/3/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	449
FS123	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	113
FS124	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	276
FS125	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	126
FS126	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	111
FS127	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	242
FS128	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	99.0
FS129	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	182
FS130	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	163
FS131	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	82.7
FS132	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	84.7

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS133	10/6/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	119
FS134	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	108
FS135	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	100
FS136	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	80.9
FS137	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	84.0
FS138	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	52.7
FS139	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	66.4
FS140	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	50.8
FS141	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	63.3
FS142	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	270
FS143	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	74.6
FS144	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	90.5
FS145	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	62.4
FS146	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	71.8
FS147	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	73.8
FS148	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	74.1
FS149	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	201
FS150	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	199
FS151	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	218
FS152	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	264
FS153	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	205
FS154	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	305
FS155	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	211
FS156	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	213
FS157	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	200
FS158	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	210
FS159	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	202
FS160	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	245
FS161	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	304
FS162	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	190
FS163	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	324
FS164	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	227
FS165	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	285

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS166	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	88.0
FS167	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	103
FS168	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222
FS169	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	157
FS170	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	268
FS171	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	233
FS172	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	236
FS173	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	181
FS174	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	290
FS175	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	231
FS176	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	224
FS177	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	243
FS178	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	82.7
FS179	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	215
FS180	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	228
FS181	10/10/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	236
FS182	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	167
FS183	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	187
FS184	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	170
FS185	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	178
FS186	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	186
FS187	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	81.5
FS188	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	154
FS189	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	59.4
FS190	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	227
FS191	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	120
FS192	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	121
FS193	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	118
FS194	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	235
FS195	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	220
FS196	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	173
FS197	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	240
FS198	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	286



TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS199	10/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	343
FS200	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	229
FS201	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	79.6
FS202	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	102
FS203	10/14/2025	0.5	<0.0250	<0.0500	<20.0	38.4	<50.0	38.4	<50.0	280
FS204	10/14/2025	0.5	<0.0250	<0.0500	<20.0	65.5	<50.0	65.5	65.5	286
FS205	10/14/2025	0.5	<0.0250	<0.0500	<20.0	41.9	<50.0	41.9	<50.0	324
FS206	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	223
FS207	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	273
FS208	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	296
FS209	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	157
FS210	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	158
FS211	10/8/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	166
FS212	10/14/2025	0.5	<0.0250	<0.0500	<20.0	45.4	<50.0	45.4	<50.0	344
FS213	10/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	439
FS214	10/14/2025	0.5	<0.0250	<0.0500	<20.0	88.5	65.3	88.5	153.8	272
FS214	10/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	395
FS215	10/14/2025	0.5	<0.0250	<0.0500	<20.0	34.6	<50.0	34.6	<50.0	255
FS216	10/14/2025	0.5	<0.0250	<0.0500	<20.0	43.0	<50.0	43.0	<50.0	268
FS217	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS218	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	218
FS219	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	296
FS220	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	209
FS221	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	374
FS222	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	235
FS223	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	401
FS224	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS225	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS226	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	189
FS227	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	168
FS228	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	368
FS229	9/24/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	294
FS230	9/24/2025	3	<0.0250	<0.0500	<20.0	75.5	<50.0	75.5	75.5	889
FS230	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS231	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	227
FS232	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	236
FS233	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	286
FS234	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS235	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS236	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS237	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	338
FS238	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	262
FS239	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	219
FS240	9/23/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
FS241	9/23/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	212
FS242	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	242
FS243	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	360
FS244	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	151
FS245	10/2/2025	3	<0.0250	<0.0500	<20.0	27.4	<50.0	27.4	<50.0	236
FS246	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS247	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS248	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS249	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	266
FS250	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS251	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	280
FS252	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS253	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	206
FS254	9/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	264
FS255	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS256	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	120
FS257	10/2/2025	3	<0.0250	<0.0500	<20.0	25.6	<50.0	25.6	<50.0	279
FS258	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS259	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	269
FS260	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	250
FS261	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS262	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	167
FS263	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	224

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS264	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	83.5
FS265	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	70.3
FS266	10/2/2025	3	<0.0250	<0.0500	<20.0	28.4	<50.0	28.4	<50.0	260
FS267	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS268	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	95.3
FS269	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	233
FS270	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS271	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS272	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	156
FS273	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	195
FS274	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	55.8
FS275	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS276	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS277	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS278	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	256
FS279	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	295
FS280	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	246
FS281	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS282	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS283	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	257
FS284	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	56.0
FS285	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS286	9/16/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS287	9/17/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	218
FS288	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	94.3
FS289	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS290	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	187
FS291	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS292	10/2/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	190
FS293	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS294	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS295	9/17/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS296	9/17/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS297	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS298	9/17/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	278
FS299	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS300	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS301	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS302	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS303	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS304	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS305	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS306	9/17/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS307	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS308	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS309	9/15/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	86.1
FS310	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	219
FS311	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	209
FS312	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS313	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS314	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	206
FS315	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS316	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS317	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	162
FS318	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS319	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	244
FS320	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	149
FS321	9/18/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS322	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	373
FS323	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	309
FS324	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	267
FS325	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	299
FS326	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	111
FS327	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	308
FS328	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	233
FS329	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	194

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS330	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	167
FS331	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	140
FS332	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	327
FS333	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS334	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS335	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS336	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	323
FS337	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	246
FS338	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	302
FS339	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	259
FS340	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	273
FS341	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	262
FS342	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	350
FS343	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	276
FS344	10/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	193
FS345	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	320
FS346	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
FS347	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	220
FS348	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	387
FS349	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	299
FS350	10/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	148
FS351	10/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	287
FS352	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	260
FS353	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	241
FS354	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS355	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	186
FS356	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	312
FS357	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	259
FS358	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	204
FS359	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	240
FS360	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	321
FS361	9/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	312
FS362	10/29/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	429

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS363	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	244
FS364	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	293
FS365	9/24/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	245
FS366	10/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	165
FS367	10/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	131
FS368	10/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	165
FS369	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	387
FS370	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS371	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	176
FS372	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	173
FS373	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	194
FS374	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	243
FS375	10/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	153
FS376	10/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	156
FS377	10/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	148
FS378	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	309
FS379	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	236
FS380	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	355
FS381	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	225
FS382	10/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	153
FS383	10/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	160
FS384	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS385	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	246
FS386	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS387	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	352
FS388	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	322
FS389	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	338
FS390	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	247
FS391	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	221
FS392	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	321
FS393	10/2/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	331
FS394	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	194
FS395	9/22/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	169



TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Floor Soil Samples										
FS396	9/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	221
FS397	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS398	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	209
FS399	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS400	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	224
FS401	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	296
FS402	9/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	158
FS403	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	206
FS404	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	245
FS405	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	210
FS406	10/1/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Sidewall Soil Samples										
SW01	9/22/2025	0-3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW02	9/19/2025	0-3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	594
SW03	9/22/2025	0-3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW04	9/22/2025	0-3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	249
SW05	9/30/2025	0-0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	241
SW06	9/30/2025	0-0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	291
SW07	9/30/2025	0-0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	247
SW08	9/30/2025	0-0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	264
SW09	9/30/2025	0-1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	440
SW09	10/2/2025	0-1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW10	10/2/2025	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SW11	10/2/2025	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SW12	10/2/2025	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SW13	10/2/2025	0-1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW14	10/1/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	229
SW15	10/1/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	162
SW16	10/6/2025	0-8	<0.0250	<0.0500	<20.0	39.8	<50.0	<25.0	<50.0	238
SW17	10/6/2025	0-8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	288
SW18	10/6/2025	0-8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	232
SW19	10/6/2025	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	237
SW19	10/6/2025	5-10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	88.5
SW20	10/6/2025	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	219
SW20	10/6/2025	5-10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	91.9
SW21	10/6/2025	0-6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	249
SW22	10/6/2025	0-6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	175
SW23	10/6/2025	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	175
SW24	10/6/2025	0-8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	231
SW25	10/6/2025	0-8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	95.2
SW26	10/6/2025	0-8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	145
SW27	10/7/2025	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	83.4
SW28	10/7/2025	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	95.1
SW29	10/7/2025	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	89.3



TABLE 3 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Dr. Ireland State 16 139 Well Pad
 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
Excavation Sidewall Soil Samples										
SW30	10/7/2025	0-9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	87.8
SW31	10/7/2025	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW32	10/7/2025	0-1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	149
SW33	10/7/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	256
SW34	10/7/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	272
SW35	10/7/2025	0-6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	159
SW36	10/7/2025	0-6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	93.2
SW37	10/7/2025	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW38	10/7/2025	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	107
SW39	10/8/2025	0-3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	204
SW40	10/8/2025	0-6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	223
SW41	10/8/2025	0-6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	213
SW42	10/8/2025	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	176
SW43	10/8/2025	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	165
SW44	10/8/2025	0-5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	207
SW45	10/10/2025	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	190
SW46	10/10/2025	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	127
SW47	10/10/2025	0-3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	172
SW48	10/10/2025	0-3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	80.2
SW49	10/10/2025	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	86.1
SW50	10/10/2025	0-1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	73.4
SW51	10/14/2025	0-0.5	<0.0250	<0.0500	<20.0	43.2	<50.0	43.2	<50.0	263
SW52	10/14/2025	0-0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	116

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log and Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) MW - 2					OSE FILE NUMBER(S)				
	WELL OWNER NAME(S) Village of Loving					PHONE (OPTIONAL)				
	WELL OWNER MAILING ADDRESS 415 W. Cedar, P.O. Box 56					CITY Loving		STATE NM		ZIP 88256
	WELL LOCATION (FROM GPS)		DEGREES LATITUDE 32		MINUTES 1802		SECONDS 50.40		N	
		LONGITUDE 104		05		53.40		W		
* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84										
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE 800' north of intersection with E. London Rd., 700' east of Carter Road										
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1070		NAME OF LICENSED DRILLER Tim Branco				NAME OF WELL DRILLING COMPANY Southwest Engineering, Inc.			
	DRILLING STARTED 08-11-14		DRILLING ENDED 08-11-14		DEPTH OF COMPLETED WELL (FT) 40		BORE HOLE DEPTH (FT) 40		DEPTH WATER FIRST ENCOUNTERED (FT) 30	
	COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)							STATIC WATER LEVEL IN COMPLETED WELL (FT)		
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:									
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: hollow stem auger									
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)		
	FROM	TO								
	0	30	8	P.V.C.	flush thread	2	Sch. 40			
	30	40	8	P.V.C.	flush thread	2	Sch. 40	.010		
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								
	0	25	8	cement grout		poured				
	25	28	8	bentonite plug						
	28	40	8	1/8 sand						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	C-3762	POD NUMBER	2	TRN NUMBER	SS0515
LOCATION	Mpn 235.28E 17.244				PAGE 1 OF 2

[illegible]

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	C-3762	POD NUMBER	2	TRN NUMBER	550515
LOCATION	Men	235.28F	N 244		PAGE 2 OF 2



APPENDIX B

Lithologic Soil Sampling Logs

 ENSOLUM		Sample Name: PH01		Date: 08/01/2025				
		Site Name: Dr. Ireland State 16 139 Well Pad						
		Incident Number: nAPP2504029640						
		Job Number: 03A2270072						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.29517, -103.090119			Logged By: Jarad McCauley		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 8'			
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. No 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	2,240 2,912 1,837 837 644 644 578 347	18	Y	PH01	0	0	CCHE	0 - 0.5' - Pad Caliche - White to very light brown, Medium to fine grained w/ some small to large gravel, Non-Plastic, Noncohesive, Well graded
					0.5			
					1	1	SC	0.5 - 3' - Clayey Sand w/ trace Gypsum - medium to light brown, fine to very fine, Non-Plastic, Noncohesive, Massive
					2	2		
					3	3		
					4	4	CL	3 - 8' - Lean Clay w/ trace Gypsum - Very Fine to fine - Medium brown, Low Plasticity, Cohesive, Uniform, Massive
					5	5		
					6	6		
				7	7			
				8	8			
Total Depth @ 8 feet bgs.								

 ENSOLUM		Sample Name: PH02		Date: 7/10/2025				
		Site Name: Dr. Ireland State 16 139 Well Pad						
		Incident Number: nAPP2504029640						
		Job Number: 03A2270072						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.295046, -104.089990			Logged By: Israel Estrella		Method: Backhoe			
			Hole Diameter: 2ft		Total Depth:			
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. No 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	386		Y	BH02	0	0	CCHE	0-0.75' - Pad Caliche - White to very light brown, Medium to fine grained w/ some small to large gravel, Non-Plastic, Noncohesive, Well graded
D	722				1	1		
D	224	18	N		2	2	SC	0.75-3' - Clayey Sand w/ trace Gypsum - medium to light brown, fine to very fine, Non-Plastic, Noncohesive, Massive
D	296				3	3		
Total Depth @ 3 feet bgs.								

 ENSOLUM		Sample Name: PH03		Date: 7/10/2025				
		Site Name: Dr. Ireland State 16 139 Well Pad						
		Incident Number: nAPP2504029640						
		Job Number: 03A2270072						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.294835, -104.090009			Logged By: Israel Estrella		Method: Backhoe			
			Hole Diameter: 2ft		Total Depth:			
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. No 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	1,114	24	Y	PH03	0	0	CCHE	0-0.5' - Pad Caliche - White to very light brown, Medium to fine grained w/ some small to large gravel, Non-Plastic, Noncohesive, Well graded
D			1		1	SC	0.5 - 3' - Clayey Sand w/ trace Gypsum - medium to light brown, fine to very fine, Non-Plastic, Noncohesive, Massive	
			2		2			
			3		3			
			4		4	CL	3 - 8' - Lean Clay w/ trace Gypsum - Very Fine to fine - Medium brown, Low Plasticity, Cohesive, Massive	
			5		5			
			6		6			
			7		7			
8	8							
Total Depth @ 8 feet bgs.								

 ENSOLUM		Sample Name: PH04		Date: 7/10/2025				
		Site Name: Dr. Ireland State 16 139 Well Pad						
		Incident Number: nAPP2504029640						
		Job Number: 03A2270072						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.294963, -104.090193			Logged By: Israel Estrella		Method: Backhoe			
			Hole Diameter: 2ft		Total Depth:			
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. No 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					0	0	CCHE	0-0.75' - Pad Caliche - White to very light brown, Medium to fine grained w/ some small to large gravel, Non-Plastic, Noncohesive, Well
					1	1		
					2	2	SC	0.5 - 3' - Clayey Sand w/ trace Gypsum - medium to light brown, fine to very fine, Non-Plastic, Noncohesive, Massive
	946				3	3		
	946				4	4		
	1,114				5	5		
	1,108				6	6		
	1,019		N	PH04	7	7		
D	935				8	8		
	1,019				9	9	CL	3 - 8' - Lean Clay w/ trace Gypsum - Very Fine to fine - Medium brown, Low Plasticity, Cohesive, Massive
	935				10	10		
	1,019				11	11		
	644				12	12		
	644				13	13		
	644				14	14		
	397	20			15	15		
Total Depth @ 15 feet bgs.								

						Sample Name: PH05		Date: 7/11/2025	
						Site Name: Dr. Ireland State 16 139 Well Pad			
						Incident Number: nAPP2504029640			
						Job Number: 03A2270072			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: Israel Estrella		Method: Backhoe	
Coordinates: 32.294850, -104.090295						Hole Diameter: 2ft		Total Depth:	
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. No correction factors included.									
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	2,240 935 856 856 784 644 644 784 397	18	N	PH05	0	0	CCHE	0 - 0.75' - Pad Caliche - White to very light brown, Medium to fine grained w/ some small to large gravel, Non-Plastic, Noncohesive, Well graded	
					1	1	SC	0.5 - 3' - Clayey Sand w/ trace Gypsum - medium to light brown, fine to very fine, Non-Plastic, Noncohesive, Massive	
					2	2			
					3	3			
					4	4	CL	3 - 8' - Lean Clay w/ trace Gypsum - Very Fine to fine - Medium brown, Low Plasticity, Cohesive, Massive	
					5	5			
					6	6			
					7	7			
					8	8			
9	9	Total Depth @ 9 feet bgs.							

 ENSOLUM		Sample Name: PH06		Date: 7/11/2025				
		Site Name: Dr. Ireland State 16 139 Well Pad						
		Incident Number: nAPP2504029640						
		Job Number: 03A2270072						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.294946, -104.090341			Logged By: Israel Estrella		Method: Backhoe			
			Hole Diameter: 2ft		Total Depth:			
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. No 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 D	2,290 672 644 644 644 515	40	Y	PH06	0	0	CCHE	0 - 0.5' - Pad Caliche - White to very light brown, Medium to fine grained w/ some small to large gravel, Non-Plastic, Noncohesive, Well graded
			N		1	1	SC	0.5 - 3' - Clayey Sand w/ trace Gypsum - medium to light brown, fine to very fine, Non-Plastic, Noncohesive, Massive
					2	2		
					3	3		
					4	4	CL	3 - 8' - Lean Clay w/ trace Gypsum - Very Fine to fine - Medium brown, Low Plasticity, Cohesive, Massive
					5	5		
					6	6		
7	7							
Total Depth @ 7 feet bgs.								

 ENSOLUM		Sample Name: PH07		Date: 7/11/2025				
		Site Name: Dr. Ireland State 16 139 Well Pad						
		Incident Number: nAPP2504029640						
		Job Number: 03A2270072						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.295020, -104.090389			Logged By: Israel Estrella		Method: Backhoe			
			Hole Diameter: 2ft		Total Depth:			
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. No 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	453 644 1,388 1,108 1,019 935 515 644 397	40	Y	PH07	0	0	CCHE	0 - 0.75' - Pad Caliche - White to very light brown, Medium to fine grained w/ some small to large gravel, Non-Plastic, Noncohesive, Well graded
D			N		1	1	SC	0.5 - 3' - Clayey Sand w/ trace Gypsum - medium to light brown, fine to very fine, Non-Plastic, Noncohesive, Massive
			2		2			
			3		3			
			4		4	CL	3 - 8' - Lean Clay w/ trace Gypsum - Very Fine to fine - Medium brown, Low Plasticity, Cohesive, Massive	
			5		5			
			6		6			
			7		7			
			8		8			
			9		9			
10	10							
Total Depth @ 10 feet bgs.								



APPENDIX C

Photographic Log



Photographic Log

Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640



Photograph 1
Description: Lease Sign
View: Southeast

Date: 4/21/2025



Photograph 2
Description: Spill Area
View: Northeast

Date: 2/10/2025



Photograph 3
Description: Spill Area
View: Southwest

Date: 2/10/2025



Photograph 4
Description: Spill Area
View: North

Date: 2/10/2025



Photographic Log

Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640



Photograph 5
Description: Spill Area
View: Northwest

Date: 2/10/2025



Photograph 6
Description: Delineation (SS07)
View: Northeast

Date: 4/22/2025



Photograph 7
Description: Delineation (SS08)
View: Northeast

Date: 4/22/2025



Photograph 8
Description: Delineation (PH02)
View: North

Date: 7/10/2025



Photographic Log

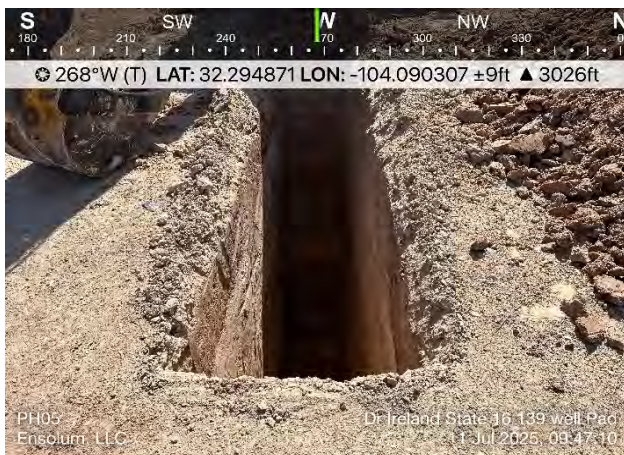
Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640



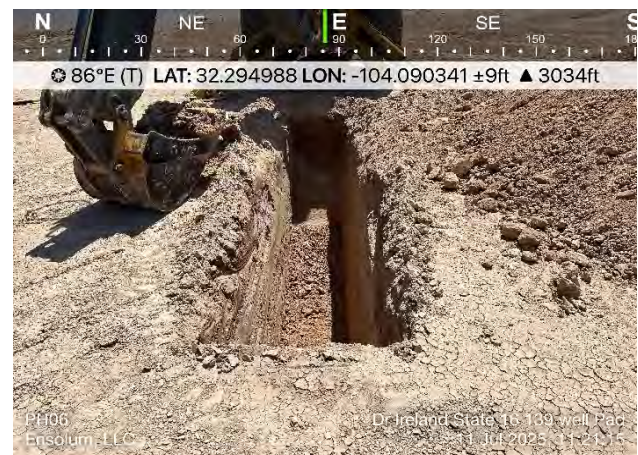
Photograph 9 Date: 7/10/2025
Description: Delineation (PH03)
View: Northeast



Photograph 10 Date: 7/10/2025
Description: Delineation (PH04)
View: West



Photograph 11 Date: 7/11/2025
Description: Delineation (PH05)
View: West

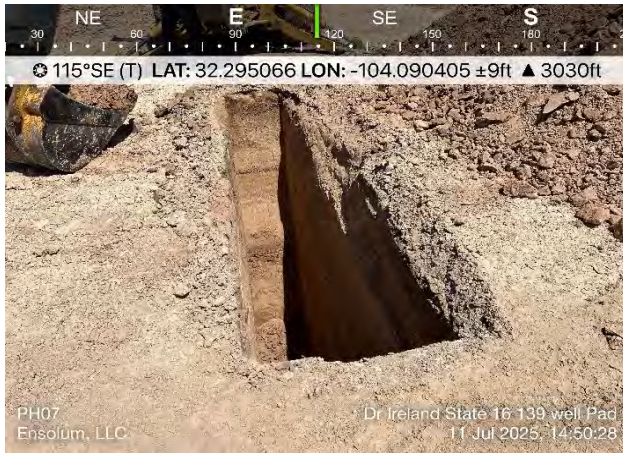


Photograph 12 Date: 7/11/2025
Description: Delineation (PH06)
View: East



Photographic Log

Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640



Photograph 13 Date: 7/11/2025
Description: Delineation (PH07)
View: Southeast



Photograph 14 Date: 8/1/2025
Description: Delineation (PH01)
View: East



Photograph 15 Date: 9/15/2025
Description: Excavation Activities
View: South



Photograph 16 Date: 9/15/2025
Description: Excavation Activities
View: Northwest



Photographic Log

Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640



Photograph 17 Date: 9/16/2025
Description: Excavation Activities
View: West



Photograph 18 Date: 9/17/2025
Description: Excavation Activities
View: Northeast



Photograph 19 Date: 9/17/2025
Description: Excavation Activities
View: East



Photograph 20 Date: 9/18/2025
Description: Excavation Activities
View: East

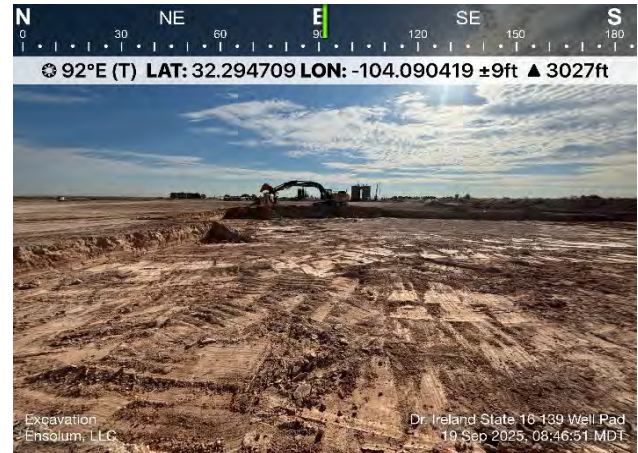


Photographic Log

Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640



Photograph 21 Date: 9/18/2025
Description: Excavation Activities
View: East



Photograph 22 Date: 9/19/2025
Description: Excavation Activities
View: East



Photograph 23 Date: 9/19/2025
Description: Excavation Activities
View: Northeast



Photograph 24 Date: 9/22/2025
Description: Excavation Area
View: Southwest



Photographic Log

Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640



Photograph 25

Date: 9/22/2025

Description: Excavation Area

View: East



Photograph 26

Date: 9/23/2025

Description: Excavation Activities

View: East



Photograph 27

Date: 9/23/2025

Description: Excavation Area

View: Northeast



Photograph 28

Date: 9/24/2025

Description: Excavation Activities

View: Southwest



Photographic Log

Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640

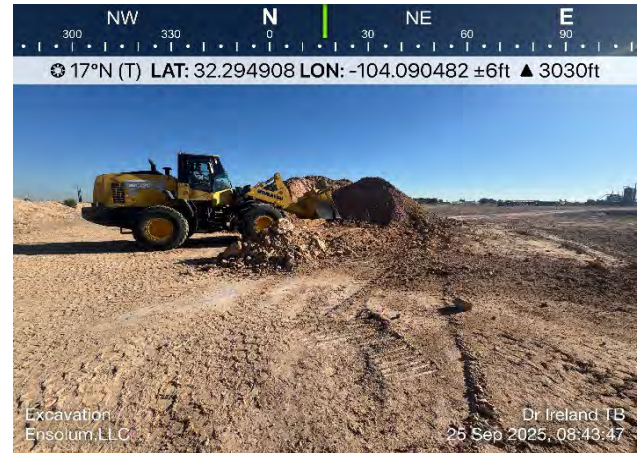


Photograph 29

Date: 9/24/2025

Description: Excavation Activities

View: West

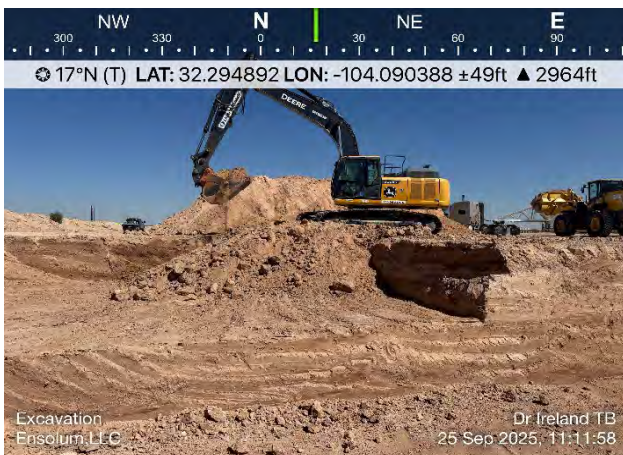


Photograph 30

Date: 9/25/2025

Description: Excavation Activities

View: North



Photograph 31

Date: 9/25/2025

Description: Excavation Activities

View: North



Photograph 32

Date: 9/26/2025

Description: Excavation Activities

View: East



Photographic Log

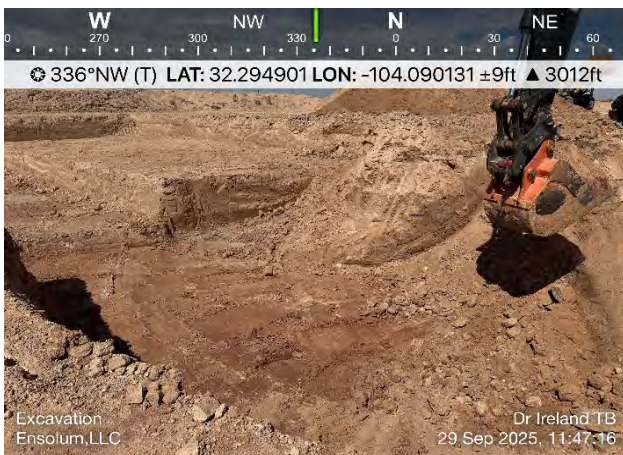
Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640



Photograph 33 Date: 9/26/2025
Description: Excavation Activities
View: East



Photograph 34 Date: 9/29/2025
Description: Excavation Activities
View: Northwest



Photograph 35 Date: 9/29/2025
Description: Excavation Activities
View: Northwest



Photograph 36 Date: 9/30/2025
Description: Excavation Area
View: North



Photographic Log

Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640



Photograph 37 Date: 9/30/2025
Description: Excavation Activities
View: Northeast



Photograph 38 Date: 10/1/2025
Description: Excavation Area
View: Northeast



Photograph 39 Date: 10/1/2025
Description: Excavation Activities
View: North

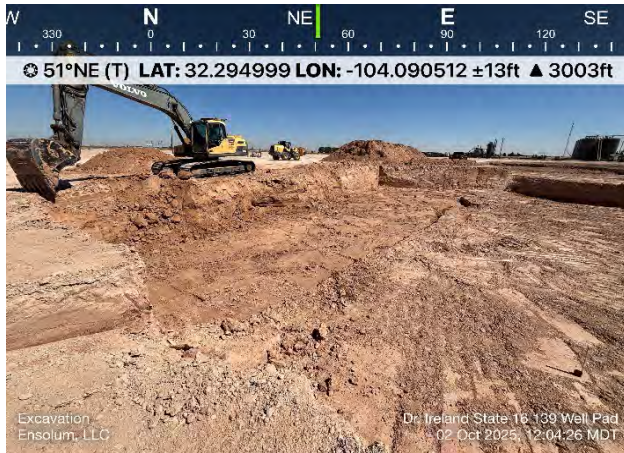


Photograph 40 Date: 10/2/2025
Description: Excavation Area
View: East



Photographic Log

Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640



Photograph 41 Date: 10/2/2025
Description: Excavation Activities
View: Northeast



Photograph 42 Date: 10/3/2025
Description: Excavation Activities
View: Southeast



Photograph 43 Date: 10/3/2025
Description: Excavation Activities
View: East



Photograph 44 Date: 10/6/2025
Description: Excavation Activities
View: North



Photographic Log

Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640



Photograph 45

Date: 10/6/2025

Description: Excavation Activities

View: Northeast



Photograph 46

Date: 10/7/2025

Description: Excavation Activities

View: South



Photograph 47

Date: 10/7/2025

Description: Excavation Activities

View: North



Photograph 48

Date: 10/8/2025

Description: Excavation Activities

View: East



Photographic Log

Matador Production Company
Dr. Ireland State 16 139 Well Pad
nAPP2504029640



Photograph 49

Date: 10/8/2025

Description: Excavation Activities

View: Southeast



Photograph 50

Date: 10/8/2025

Description: Excavation Area

View: West



Photograph 51

Date: 10/10/2025

Description: Excavation Area

View: Southwest



Photograph 52

Date: 10/10/2025

Description: Excavation Area

View: West

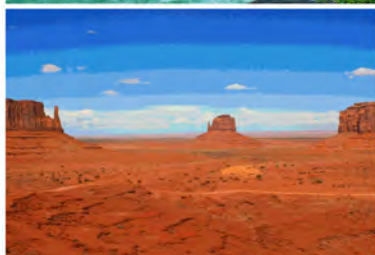


APPENDIX D

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: Dr. Ireland State 16 139 Well Pad

Work Order: E504225

Job Number: 23003-0002

Received: 4/23/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/29/25

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: 4/29/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E504225
Date Received: 4/23/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/23/2025 8:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad 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

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mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported: 04/29/25 08:59
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E504225-01A	Soil	04/21/25	04/23/25	Glass Jar, 2 oz.
SS01-1'	E504225-02A	Soil	04/21/25	04/23/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/29/2025 8:59:52AM

SS01-0'

E504225-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2517065	
Benzene	ND	0.0250	1	04/23/25	04/23/25	
Ethylbenzene	ND	0.0250	1	04/23/25	04/23/25	
Toluene	ND	0.0250	1	04/23/25	04/23/25	
o-Xylene	ND	0.0250	1	04/23/25	04/23/25	
p,m-Xylene	ND	0.0500	1	04/23/25	04/23/25	
Total Xylenes	ND	0.0250	1	04/23/25	04/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	04/23/25	04/23/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2517065	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/25	04/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.5 %	70-130	04/23/25	04/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2517060	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/25	04/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/25	04/24/25	
<i>Surrogate: n-Nonane</i>		86.5 %	61-141	04/23/25	04/24/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2517070	
Chloride	348	200	10	04/23/25	04/23/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/29/2025 8:59:52AM

SS01-1'

E504225-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517065
Benzene	ND	0.0250	1	04/23/25	04/24/25	
Ethylbenzene	ND	0.0250	1	04/23/25	04/24/25	
Toluene	ND	0.0250	1	04/23/25	04/24/25	
o-Xylene	ND	0.0250	1	04/23/25	04/24/25	
p,m-Xylene	ND	0.0500	1	04/23/25	04/24/25	
Total Xylenes	ND	0.0250	1	04/23/25	04/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	04/23/25	04/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517065
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/23/25	04/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.5 %	70-130	04/23/25	04/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2517060
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/25	04/24/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/23/25	04/24/25	
<i>Surrogate: n-Nonane</i>						
		86.7 %	61-141	04/23/25	04/24/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2517070
Chloride	368	200	10	04/23/25	04/23/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/29/2025 8:59:52AM

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 (2517065-BLK1)

Prepared: 04/23/25 Analyzed: 04/23/25

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	7.86		8.00		98.3	70-130			

LCS (2517065-BS1)

Prepared: 04/23/25 Analyzed: 04/23/25

Benzene	4.95	0.0250	5.00		99.0	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	4.92	0.0250	5.00		98.4	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.77	0.0500	10.0		97.7	70-130			
Total Xylenes	14.5	0.0250	15.0		96.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

Matrix Spike (2517065-MS1)

Source: E504225-01

Prepared: 04/23/25 Analyzed: 04/23/25

Benzene	5.92	0.0250	5.00	ND	118	70-130			
Ethylbenzene	5.76	0.0250	5.00	ND	115	70-130			
Toluene	5.87	0.0250	5.00	ND	117	70-130			
o-Xylene	5.68	0.0250	5.00	ND	114	70-130			
p,m-Xylene	11.6	0.0500	10.0	ND	116	70-130			
Total Xylenes	17.2	0.0250	15.0	ND	115	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			

Matrix Spike Dup (2517065-MSD1)

Source: E504225-01

Prepared: 04/23/25 Analyzed: 04/23/25

Benzene	5.46	0.0250	5.00	ND	109	70-130	7.96	27	
Ethylbenzene	5.37	0.0250	5.00	ND	107	70-130	7.14	26	
Toluene	5.43	0.0250	5.00	ND	109	70-130	7.71	20	
o-Xylene	5.27	0.0250	5.00	ND	105	70-130	7.36	25	
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130	7.02	23	
Total Xylenes	16.1	0.0250	15.0	ND	107	70-130	7.13	26	
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/29/2025 8:59:52AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2517065-BLK1) Prepared: 04/23/25 Analyzed: 04/23/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			

LCS (2517065-BS2) Prepared: 04/23/25 Analyzed: 04/23/25

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0		94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

Matrix Spike (2517065-MS2) Source: E504225-01 Prepared: 04/23/25 Analyzed: 04/23/25

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.7	70-130			

Matrix Spike Dup (2517065-MSD2) Source: E504225-01 Prepared: 04/23/25 Analyzed: 04/23/25

Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.5	70-130	5.16	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/29/2025 8:59:52AM

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
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Blank (2517060-BLK1)					Prepared: 04/23/25 Analyzed: 04/23/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.6		50.0		81.2	61-141			

LCS (2517060-BS1)					Prepared: 04/23/25 Analyzed: 04/23/25				
Diesel Range Organics (C10-C28)	213	25.0	250		85.4	66-144			
Surrogate: n-Nonane	41.8		50.0		83.5	61-141			

Matrix Spike (2517060-MS1)					Source: E504225-01		Prepared: 04/23/25 Analyzed: 04/23/25		
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.4	56-156			
Surrogate: n-Nonane	44.4		50.0		88.8	61-141			

Matrix Spike Dup (2517060-MSD1)					Source: E504225-01		Prepared: 04/23/25 Analyzed: 04/23/25		
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.8	56-156	0.634	20	
Surrogate: n-Nonane	43.9		50.0		87.9	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/29/2025 8:59:52AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2517070-BLK1)					Prepared: 04/23/25 Analyzed: 04/23/25				
Chloride	ND	20.0							
LCS (2517070-BS1)					Prepared: 04/23/25 Analyzed: 04/23/25				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2517070-MS1)					Source: E504222-02		Prepared: 04/23/25 Analyzed: 04/23/25		
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2517070-MSD1)					Source: E504222-02		Prepared: 04/23/25 Analyzed: 04/23/25		
Chloride	263	20.0	250	ND	105	80-120	0.694	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/29/25 08:59

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State																	
Client: Matador				Company: Ensolum LLC		Lab WO# E504225		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: Dr. Ireland State 16 139 Well Pad				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	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA												
13:08	4/21/2025	Soil	1	SS01- 0'		1						x																	
13:10	4/21/2025	Soil	1	SS01-1'		2						x																	
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																													
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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 in ice at an avg temp above 0 but less than 6 °C on subsequent days. <table border="1"> <tr> <th colspan="3">Lab Use Only</th> </tr> <tr> <td>Received on ice:</td> <td colspan="2">Y / N</td> </tr> <tr> <td>T1</td> <td>T2</td> <td>T3</td> </tr> <tr> <td colspan="3">AVG Temp °C</td> </tr> </table>										Lab Use Only			Received on ice:	Y / N		T1	T2	T3	AVG Temp °C		
Lab Use Only																													
Received on ice:	Y / N																												
T1	T2	T3																											
AVG Temp °C																													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																						
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																													
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																													
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																													



envirotech

Envirotech Analytical Laboratory

Printed: 4/23/2025 9:54:45AM

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:	04/23/25 08:00	Work Order ID:	E504225
Phone:	(972) 371-5200	Date Logged In:	04/22/25 15:00	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	04/29/25 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

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.

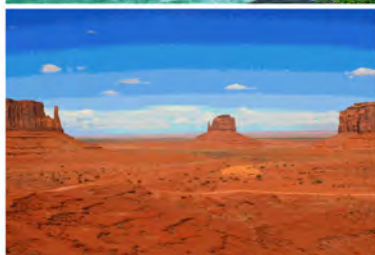
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E504241

Job Number: 23003-0002

Received: 4/24/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/30/25

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: 4/30/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E504241
Date Received: 4/24/2025 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/24/2025 7:15:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 04/30/25 08:28
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS07-0'	E504241-01A	Soil	04/22/25	04/24/25	Glass Jar, 2 oz.
SS07-1'	E504241-02A	Soil	04/22/25	04/24/25	Glass Jar, 2 oz.
SS08-0'	E504241-03A	Soil	04/22/25	04/24/25	Glass Jar, 2 oz.
SS08-1'	E504241-04A	Soil	04/22/25	04/24/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/30/2025 8:28:08AM
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SS07-0'

E504241-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2517080	
Benzene	ND	0.0250	1	04/24/25	04/25/25	
Ethylbenzene	ND	0.0250	1	04/24/25	04/25/25	
Toluene	ND	0.0250	1	04/24/25	04/25/25	
o-Xylene	ND	0.0250	1	04/24/25	04/25/25	
p,m-Xylene	ND	0.0500	1	04/24/25	04/25/25	
Total Xylenes	ND	0.0250	1	04/24/25	04/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>99.5 %</i>	<i>70-130</i>		<i>04/24/25</i>	<i>04/25/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2517080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/24/25	04/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>95.3 %</i>	<i>70-130</i>		<i>04/24/25</i>	<i>04/25/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2517087	
Diesel Range Organics (C10-C28)	38.5	25.0	1	04/24/25	04/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/24/25	04/25/25	
<i>Surrogate: n-Nonane</i>	<i>96.4 %</i>	<i>61-141</i>		<i>04/24/25</i>	<i>04/25/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2517091	
Chloride	145	20.0	1	04/24/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/30/2025 8:28:08AM

SS07-1'

E504241-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2517080
Benzene	ND	0.0250	1	04/24/25	04/25/25	
Ethylbenzene	ND	0.0250	1	04/24/25	04/25/25	
Toluene	ND	0.0250	1	04/24/25	04/25/25	
o-Xylene	ND	0.0250	1	04/24/25	04/25/25	
p,m-Xylene	ND	0.0500	1	04/24/25	04/25/25	
Total Xylenes	ND	0.0250	1	04/24/25	04/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		04/24/25	04/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2517080
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/24/25	04/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		04/24/25	04/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2517087
Diesel Range Organics (C10-C28)	ND	25.0	1	04/24/25	04/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/24/25	04/25/25	
<i>Surrogate: n-Nonane</i>						
	99.0 %	61-141		04/24/25	04/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2517091
Chloride	355	100	5	04/24/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/30/2025 8:28:08AM

SS08-0'

E504241-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2517080
Benzene	ND	0.0250	1	04/24/25	04/25/25	
Ethylbenzene	ND	0.0250	1	04/24/25	04/25/25	
Toluene	ND	0.0250	1	04/24/25	04/25/25	
o-Xylene	ND	0.0250	1	04/24/25	04/25/25	
p,m-Xylene	ND	0.0500	1	04/24/25	04/25/25	
Total Xylenes	ND	0.0250	1	04/24/25	04/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.9 %	70-130		04/24/25	04/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2517080
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/24/25	04/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.2 %	70-130		04/24/25	04/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2517087
Diesel Range Organics (C10-C28)	56.8	25.0	1	04/24/25	04/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/24/25	04/25/25	
<i>Surrogate: n-Nonane</i>						
	98.7 %	61-141		04/24/25	04/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2517091
Chloride	179	40.0	2	04/24/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/30/2025 8:28:08AM

SS08-1'

E504241-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2517080	
Benzene	ND	0.0250	1	04/24/25	04/25/25	
Ethylbenzene	ND	0.0250	1	04/24/25	04/25/25	
Toluene	ND	0.0250	1	04/24/25	04/25/25	
o-Xylene	ND	0.0250	1	04/24/25	04/25/25	
p,m-Xylene	ND	0.0500	1	04/24/25	04/25/25	
Total Xylenes	ND	0.0250	1	04/24/25	04/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.2 %	70-130		04/24/25	04/25/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2517080	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/24/25	04/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.5 %	70-130		04/24/25	04/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2517087	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/24/25	04/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/24/25	04/25/25	
<i>Surrogate: n-Nonane</i>	99.2 %	61-141		04/24/25	04/25/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2517091	
Chloride	189	40.0	2	04/24/25	04/25/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/30/2025 8:28:08AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2517080-BLK1)

Prepared: 04/24/25 Analyzed: 04/25/25

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	7.95		8.00		99.4	70-130			

LCS (2517080-BS1)

Prepared: 04/24/25 Analyzed: 04/25/25

Benzene	4.31	0.0250	5.00		86.1	70-130			
Ethylbenzene	4.30	0.0250	5.00		86.0	70-130			
Toluene	4.32	0.0250	5.00		86.5	70-130			
o-Xylene	4.28	0.0250	5.00		85.6	70-130			
p,m-Xylene	8.60	0.0500	10.0		86.0	70-130			
Total Xylenes	12.9	0.0250	15.0		85.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.2	70-130			

Matrix Spike (2517080-MS1)

Source: E504242-01

Prepared: 04/24/25 Analyzed: 04/25/25

Benzene	4.54	0.0250	5.00	ND	90.8	70-130			
Ethylbenzene	4.52	0.0250	5.00	ND	90.4	70-130			
Toluene	4.55	0.0250	5.00	ND	91.0	70-130			
o-Xylene	4.49	0.0250	5.00	ND	89.8	70-130			
p,m-Xylene	9.03	0.0500	10.0	ND	90.3	70-130			
Total Xylenes	13.5	0.0250	15.0	ND	90.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			

Matrix Spike Dup (2517080-MSD1)

Source: E504242-01

Prepared: 04/24/25 Analyzed: 04/25/25

Benzene	4.43	0.0250	5.00	ND	88.7	70-130	2.40	27	
Ethylbenzene	4.43	0.0250	5.00	ND	88.5	70-130	2.04	26	
Toluene	4.45	0.0250	5.00	ND	88.9	70-130	2.31	20	
o-Xylene	4.39	0.0250	5.00	ND	87.8	70-130	2.18	25	
p,m-Xylene	8.87	0.0500	10.0	ND	88.7	70-130	1.81	23	
Total Xylenes	13.3	0.0250	15.0	ND	88.4	70-130	1.93	26	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/30/2025 8:28:08AM

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
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Blank (2517080-BLK1) Prepared: 04/24/25 Analyzed: 04/25/25

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

LCS (2517080-BS2) Prepared: 04/24/25 Analyzed: 04/25/25

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.04		8.00		100	70-130			

Matrix Spike (2517080-MS2) Source: E504242-01 Prepared: 04/24/25 Analyzed: 04/25/25

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			

Matrix Spike Dup (2517080-MSD2) Source: E504242-01 Prepared: 04/24/25 Analyzed: 04/25/25

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.7	70-130	4.83	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/30/2025 8:28:08AM

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
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Blank (2517087-BLK1)					Prepared: 04/24/25 Analyzed: 04/25/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.0		50.0		93.9	61-141			

LCS (2517087-BS1)					Prepared: 04/24/25 Analyzed: 04/25/25				
Diesel Range Organics (C10-C28)	263	25.0	250		105	66-144			
Surrogate: n-Nonane	49.0		50.0		97.9	61-141			

Matrix Spike (2517087-MS1)					Source: E504213-10		Prepared: 04/24/25 Analyzed: 04/28/25		
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	47.2		50.0		94.4	61-141			

Matrix Spike Dup (2517087-MSD1)					Source: E504213-10		Prepared: 04/24/25 Analyzed: 04/28/25		
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156	1.11	20	
Surrogate: n-Nonane	47.5		50.0		94.9	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/30/2025 8:28:08AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2517091-BLK1)					Prepared: 04/24/25 Analyzed: 04/24/25				
Chloride	ND	20.0							
LCS (2517091-BS1)					Prepared: 04/24/25 Analyzed: 04/24/25				
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2517091-MS1)					Source: E504235-03		Prepared: 04/24/25 Analyzed: 04/24/25		
Chloride	860	20.0	250	620	96.2	80-120			
Matrix Spike Dup (2517091-MSD1)					Source: E504235-03		Prepared: 04/24/25 Analyzed: 04/24/25		
Chloride	870	20.0	250	620	100	80-120	1.15	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/30/25 08:28

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

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

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

Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		EFO4241		Job Number				2303-0002					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220								X					
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
9:46	4/22/2025	Soil	1	SS07- 0'		1						X					
9:50	4/22/2025	Soil	1	SS07-1'		2						X					
9:53	4/22/2025	Soil	1	SS08-0'		3						X					
9:57	4/22/2025	Soil	1	SS08-1'		4						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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 in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: ☒ Y ☐ N T1 _____ T2 _____ T3 _____ AVG Temp °C _____									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Envirotech Analytical Laboratory

Printed: 4/24/2025 8:12:52AM

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:	04/24/25 07:15	Work Order ID:	E504241
Phone:	(972) 371-5200	Date Logged In:	04/23/25 14:57	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	04/30/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Individual sample temperatures listed 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? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

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.

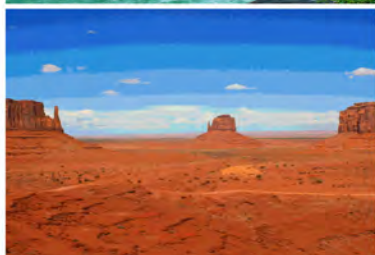
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E504250

Job Number: 23003-0002

Received: 4/25/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/28/25

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: 10/28/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E504250
Date Received: 4/25/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/25/2025 7:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/28/25 11:35
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02-0'	E504250-01A	Soil	04/23/25	04/25/25	Glass Jar, 2 oz.
SS02-1'	E504250-02A	Soil	04/23/25	04/25/25	Glass Jar, 2 oz.
SS03-0'	E504250-03A	Soil	04/23/25	04/25/25	Glass Jar, 2 oz.
SS03-1'	E504250-04A	Soil	04/23/25	04/25/25	Glass Jar, 2 oz.
SS04-0'	E504250-05A	Soil	04/23/25	04/25/25	Glass Jar, 2 oz.
SS04-1'	E504250-06A	Soil	04/23/25	04/25/25	Glass Jar, 2 oz.
SS05-0'	E504250-07A	Soil	04/23/25	04/25/25	Glass Jar, 2 oz.
SS05-1'	E504250-08A	Soil	04/23/25	04/25/25	Glass Jar, 2 oz.
SS06-0'	E504250-09A	Soil	04/23/25	04/25/25	Glass Jar, 2 oz.
SS06-1'	E504250-10A	Soil	04/23/25	04/25/25	Glass Jar, 2 oz.
SS09-0'	E504250-11A	Soil	04/23/25	04/25/25	Glass Jar, 2 oz.
SS09-1'	E504250-12A	Soil	04/23/25	04/25/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/28/2025 11:35:13AM

SS02-0'

E504250-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2517105	
Benzene	ND	0.0250	1	04/25/25	04/26/25	
Ethylbenzene	ND	0.0250	1	04/25/25	04/26/25	
Toluene	ND	0.0250	1	04/25/25	04/26/25	
o-Xylene	ND	0.0250	1	04/25/25	04/26/25	
p,m-Xylene	ND	0.0500	1	04/25/25	04/26/25	
Total Xylenes	ND	0.0250	1	04/25/25	04/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2517105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/25/25	04/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.5 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2517099	
Diesel Range Organics (C10-C28)	31.2	25.0	1	04/25/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/25/25	04/30/25	
<i>Surrogate: n-Nonane</i>		95.3 %	61-141	04/25/25	04/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2517111	
Chloride	530	20.0	1	04/25/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/28/2025 11:35:13AM

SS02-1'

E504250-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Benzene	ND	0.0250	1	04/25/25	04/26/25	
Ethylbenzene	ND	0.0250	1	04/25/25	04/26/25	
Toluene	ND	0.0250	1	04/25/25	04/26/25	
o-Xylene	ND	0.0250	1	04/25/25	04/26/25	
p,m-Xylene	ND	0.0500	1	04/25/25	04/26/25	
Total Xylenes	ND	0.0250	1	04/25/25	04/26/25	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/25/25	04/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.4 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2517099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/25/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/25/25	04/30/25	
Surrogate: n-Nonane		96.0 %	61-141	04/25/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2517111
Chloride	358	200	10	04/25/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/28/2025 11:35:13AM

SS03-0'

E504250-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Benzene	ND	0.0250	1	04/25/25	04/26/25	
Ethylbenzene	ND	0.0250	1	04/25/25	04/26/25	
Toluene	ND	0.0250	1	04/25/25	04/26/25	
o-Xylene	ND	0.0250	1	04/25/25	04/26/25	
p,m-Xylene	ND	0.0500	1	04/25/25	04/26/25	
Total Xylenes	ND	0.0250	1	04/25/25	04/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/25/25	04/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.0 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2517099
Diesel Range Organics (C10-C28)	37.6	25.0	1	04/25/25	04/30/25	
Oil Range Organics (C28-C36)	51.3	50.0	1	04/25/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
		87.3 %	61-141	04/25/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2517111
Chloride	224	20.0	1	04/25/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/28/2025 11:35:13AM

SS03-1'

E504250-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Benzene	ND	0.0250	1	04/25/25	04/26/25	
Ethylbenzene	ND	0.0250	1	04/25/25	04/26/25	
Toluene	ND	0.0250	1	04/25/25	04/26/25	
o-Xylene	ND	0.0250	1	04/25/25	04/26/25	
p,m-Xylene	ND	0.0500	1	04/25/25	04/26/25	
Total Xylenes	ND	0.0250	1	04/25/25	04/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/25/25	04/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.3 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2517099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/25/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/25/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
		99.6 %	61-141	04/25/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2517111
Chloride	348	200	10	04/25/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/28/2025 11:35:13AM

SS04-0'

E504250-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Benzene	ND	0.0250	1	04/25/25	04/26/25	
Ethylbenzene	ND	0.0250	1	04/25/25	04/26/25	
Toluene	ND	0.0250	1	04/25/25	04/26/25	
o-Xylene	ND	0.0250	1	04/25/25	04/26/25	
p,m-Xylene	ND	0.0500	1	04/25/25	04/26/25	
Total Xylenes	ND	0.0250	1	04/25/25	04/26/25	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/25/25	04/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.0 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2517099
Diesel Range Organics (C10-C28)	36.5	25.0	1	04/25/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/25/25	04/30/25	
Surrogate: n-Nonane		94.6 %	61-141	04/25/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2517111
Chloride	236	20.0	1	04/25/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/28/2025 11:35:13AM

SS04-1'

E504250-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Benzene	ND	0.0250	1	04/25/25	04/26/25	
Ethylbenzene	ND	0.0250	1	04/25/25	04/26/25	
Toluene	ND	0.0250	1	04/25/25	04/26/25	
o-Xylene	ND	0.0250	1	04/25/25	04/26/25	
p,m-Xylene	ND	0.0500	1	04/25/25	04/26/25	
Total Xylenes	ND	0.0250	1	04/25/25	04/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/25/25	04/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.6 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2517099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/25/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/25/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	04/25/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2517111
Chloride	ND	100	5	04/25/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/28/2025 11:35:13AM

SS05-0'

E504250-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Benzene	ND	0.0250	1	04/25/25	04/26/25	
Ethylbenzene	ND	0.0250	1	04/25/25	04/26/25	
Toluene	ND	0.0250	1	04/25/25	04/26/25	
o-Xylene	ND	0.0250	1	04/25/25	04/26/25	
p,m-Xylene	ND	0.0500	1	04/25/25	04/26/25	
Total Xylenes	ND	0.0250	1	04/25/25	04/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/25/25	04/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.8 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2517099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/25/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/25/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
		97.5 %	61-141	04/25/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2517111
Chloride	ND	40.0	2	04/25/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/28/2025 11:35:13AM

SS05-1'

E504250-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2517105	
Benzene	ND	0.0250	1	04/25/25	04/26/25	
Ethylbenzene	ND	0.0250	1	04/25/25	04/26/25	
Toluene	ND	0.0250	1	04/25/25	04/26/25	
o-Xylene	ND	0.0250	1	04/25/25	04/26/25	
p,m-Xylene	ND	0.0500	1	04/25/25	04/26/25	
Total Xylenes	ND	0.0250	1	04/25/25	04/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	105 %	70-130		04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2517105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/25/25	04/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.8 %	70-130		04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2517099	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/25/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/25/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		04/25/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2517111	
Chloride	101	100	5	04/25/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/28/2025 11:35:13AM

SS06-0'

E504250-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2517105	
Benzene	ND	0.0250	1	04/25/25	04/26/25	
Ethylbenzene	ND	0.0250	1	04/25/25	04/26/25	
Toluene	ND	0.0250	1	04/25/25	04/26/25	
o-Xylene	ND	0.0250	1	04/25/25	04/26/25	
p,m-Xylene	ND	0.0500	1	04/25/25	04/26/25	
Total Xylenes	ND	0.0250	1	04/25/25	04/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2517105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/25/25	04/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.7 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2517099	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/25/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/25/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
		96.2 %	61-141	04/25/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2517111	
Chloride	135	100	5	04/25/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/28/2025 11:35:13AM

SS06-1'

E504250-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Benzene	ND	0.0250	1	04/25/25	04/26/25	
Ethylbenzene	ND	0.0250	1	04/25/25	04/26/25	
Toluene	ND	0.0250	1	04/25/25	04/26/25	
o-Xylene	ND	0.0250	1	04/25/25	04/26/25	
p,m-Xylene	ND	0.0500	1	04/25/25	04/26/25	
Total Xylenes	ND	0.0250	1	04/25/25	04/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2517105
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/25/25	04/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.6 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2517099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/25/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/25/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
		92.3 %	61-141	04/25/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2517111
Chloride	ND	100	5	04/25/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/28/2025 11:35:13AM

SS09-0'

E504250-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2517105	
Benzene	ND	0.0250	1	04/25/25	04/26/25	
Ethylbenzene	ND	0.0250	1	04/25/25	04/26/25	
Toluene	ND	0.0250	1	04/25/25	04/26/25	
o-Xylene	ND	0.0250	1	04/25/25	04/26/25	
p,m-Xylene	ND	0.0500	1	04/25/25	04/26/25	
Total Xylenes	ND	0.0250	1	04/25/25	04/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2517105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/25/25	04/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.1 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2517099	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/25/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/25/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
		92.1 %	61-141	04/25/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2517111	
Chloride	ND	40.0	2	04/25/25	04/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/28/2025 11:35:13AM

SS09-1'

E504250-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2517105	
Benzene	ND	0.0250	1	04/25/25	04/26/25	
Ethylbenzene	ND	0.0250	1	04/25/25	04/26/25	
Toluene	ND	0.0250	1	04/25/25	04/26/25	
o-Xylene	ND	0.0250	1	04/25/25	04/26/25	
p,m-Xylene	ND	0.0500	1	04/25/25	04/26/25	
Total Xylenes	ND	0.0250	1	04/25/25	04/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2517105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/25/25	04/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.5 %	70-130	04/25/25	04/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2517099	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/25/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/25/25	04/30/25	
<i>Surrogate: n-Nonane</i>		91.4 %	61-141	04/25/25	04/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2517111	
Chloride	491	200	10	04/25/25	04/26/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/28/2025 11:35:13AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2517105-BLK1)

Prepared: 04/25/25 Analyzed: 04/26/25

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	8.20		8.00		103	70-130			

LCS (2517105-BS1)

Prepared: 04/25/25 Analyzed: 04/26/25

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.12	0.0250	5.00		102	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		101	70-130			

Matrix Spike (2517105-MS1)

Source: E504250-09

Prepared: 04/25/25 Analyzed: 04/26/25

Benzene	4.75	0.0250	5.00	ND	95.0	70-130			
Ethylbenzene	4.69	0.0250	5.00	ND	93.8	70-130			
Toluene	4.73	0.0250	5.00	ND	94.6	70-130			
o-Xylene	4.60	0.0250	5.00	ND	92.1	70-130			
p,m-Xylene	9.45	0.0500	10.0	ND	94.5	70-130			
Total Xylenes	14.1	0.0250	15.0	ND	93.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.27		8.00		103	70-130			

Matrix Spike Dup (2517105-MSD1)

Source: E504250-09

Prepared: 04/25/25 Analyzed: 04/26/25

Benzene	5.32	0.0250	5.00	ND	106	70-130	11.4	27	
Ethylbenzene	5.26	0.0250	5.00	ND	105	70-130	11.4	26	
Toluene	5.31	0.0250	5.00	ND	106	70-130	11.5	20	
o-Xylene	5.18	0.0250	5.00	ND	104	70-130	11.7	25	
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	11.1	23	
Total Xylenes	15.7	0.0250	15.0	ND	105	70-130	11.3	26	
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		102	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/28/2025 11:35:13AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2517105-BLK1) Prepared: 04/25/25 Analyzed: 04/26/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			

LCS (2517105-BS2) Prepared: 04/25/25 Analyzed: 04/26/25

Gasoline Range Organics (C6-C10)	41.3	20.0	50.0		82.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.00		8.00		100	70-130			

Matrix Spike (2517105-MS2) Source: E504250-09 Prepared: 04/25/25 Analyzed: 04/26/25

Gasoline Range Organics (C6-C10)	41.3	20.0	50.0	ND	82.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.99		8.00		99.9	70-130			

Matrix Spike Dup (2517105-MSD2) Source: E504250-09 Prepared: 04/25/25 Analyzed: 04/26/25

Gasoline Range Organics (C6-C10)	39.6	20.0	50.0	ND	79.2	70-130	4.23	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.99		8.00		99.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/28/2025 11:35:13AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2517099-BLK1)					Prepared: 04/25/25 Analyzed: 04/30/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.4		50.0		92.8	61-141			

LCS (2517099-BS1)					Prepared: 04/25/25 Analyzed: 04/30/25				
Diesel Range Organics (C10-C28)	257	25.0	250		103	66-144			
Surrogate: n-Nonane	46.9		50.0		93.8	61-141			

Matrix Spike (2517099-MS1)					Source: E504250-04		Prepared: 04/25/25 Analyzed: 04/30/25		
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	56-156			
Surrogate: n-Nonane	49.6		50.0		99.2	61-141			

Matrix Spike Dup (2517099-MSD1)					Source: E504250-04		Prepared: 04/25/25 Analyzed: 04/30/25		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	56-156	0.472	20	
Surrogate: n-Nonane	48.7		50.0		97.4	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/28/2025 11:35:13AM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2517111-BLK1)					Prepared: 04/25/25 Analyzed: 04/25/25				
Chloride	ND	20.0							
LCS (2517111-BS1)					Prepared: 04/25/25 Analyzed: 04/25/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2517111-MS1)					Source: E504250-03		Prepared: 04/25/25 Analyzed: 04/25/25		
Chloride	404	20.0	250	224	72.0	80-120			M2
Matrix Spike Dup (2517111-MSD1)					Source: E504250-03		Prepared: 04/25/25 Analyzed: 04/25/25		
Chloride	584	20.0	250	224	144	80-120	36.4	20	M2, R3

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/28/25 11:35

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX						
Project: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E504250		23003-0002				X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
12:12	4/23/2025	Soil	1	SS02- 0'		1						X						
12:17	4/23/2025	Soil	1	SS02- 1'		2						X						
8:42	4/23/2025	Soil	1	SS03- 0'		3						X						
8:44	4/23/2025	Soil	1	SS03- 1'		4						X						
12:21	4/23/2025	Soil	1	SS04- 0'		5						X						
12:24	4/23/2025	Soil	1	SS04- 1'		6						X						
12:26	4/23/2025	Soil	1	SS05- 0'		7						X						
12:29	4/23/2025	Soil	1	SS05- 1'		8						X						
12:31	4/23/2025	Soil	1	SS06- 0'		9						X						
12:32	4/23/2025	Soil	1	SS06- 1'		10						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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 in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: ☒ Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
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 _____																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



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Chain of Custody

Page 2 of 2

Received by OCD: 11/6/2025 1:34:16 PM

Page 23 of 26

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E564250	230030002				x	x						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	EPA Program			
13:43	4/23/2025	Soil	1	SS12- 0'		11						x			SDWA	CWA	RCRA	
13:44	4/23/2025	Soil	1	SS12-1'		12						x			Compliance	Y	or	N
						13									PWSID #			
						14									Remarks			
						15												
						16												
						17												
						18												
						19												
						20 CM												
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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 in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: ☒ Y / ☐ N T1 _____ T2 _____ T3 _____ AVG Temp °C _____										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



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Envirotech Analytical Laboratory

Printed: 4/28/2025 8:46:18AM

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:	04/25/25 07:00	Work Order ID:	E504250
Phone:	(972) 371-5200	Date Logged In:	04/24/25 14:21	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	05/01/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Individual sample temperatures listed 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 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State									
Client: Matador				Company: Ensolum LLC		Lab WO# E564250		Job Number 230030002				1D	2D	3D	Std	NM	CO	UT	TX		
Project: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy											x	x					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																	
Address: 3122 National Parks Hwy				Phone: 575-988-0055																	
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																	
Phone: 575-988-0055				Miscellaneous:																	
Email: agiovengo@ensolum.com																					
Sample Information										Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA			
13:43	4/23/2025	Soil	1	5512-0' SS09-0'			11						x						1.8		
13:44	4/23/2025	Soil	1	5512-1' SS09-1'			12						x						2.0		
							13														
							14														
							15														
							16														
							17														
							18														
							19														
							20 CM														
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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 in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: ☒ Y / ☐ N T1 _____ T2 _____ T3 _____ AVG Temp °C _____													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



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Chain of Custody

Page 1 of 2

Received by OCD: 11/6/2025 1:34:16 PM

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador				Company: Ensolum LLC		Lab WO# E504250		Job Number 23003-002		1D	2D	3D	Std	NM	CO	UT	TX	
Project: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy									x	x				
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information										Analysis and Method				EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
12:12	4/23/2025	Soil	1	SS02- 0'		1						x						2.7
12:17	4/23/2025	Soil	1	SS02- 1'		2						x						3.4
8:42	4/23/2025	Soil	1	SS03- 0'		3						x						5.4
8:44	4/23/2025	Soil	1	SS03- 1'		4						x						4.2
12:21	4/23/2025	Soil	1	SS04- 0'		5						x						3.6
12:24	4/23/2025	Soil	1	SS04- 1'		6						x						2.4
12:26	4/23/2025	Soil	1	SS05- 0'		7						x						3.6
12:29	4/23/2025	Soil	1	SS05- 1'		8						x						4.1
12:31	4/23/2025	Soil	1	SS06- 0'		9						x						1.2
12:32	4/23/2025	Soil	1	SS06- 1'		10						x						1.8
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, jestrella@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 in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C _____										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



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Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E507117

Job Number: 23003-0002

Received: 7/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/21/25

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: 7/21/25

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



Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E507117
Date Received: 7/14/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/14/2025 7:30:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad 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

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/21/25 13:49
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH02-0'	E507117-01A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH02-1'	E507117-02A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH02-2'	E507117-03A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH03-0'	E507117-04A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH03-1'	E507117-05A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH03-3'	E507117-06A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH03-5'	E507117-07A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH03-7'	E507117-08A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH04-0'	E507117-09A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH04-1'	E507117-10A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH04-3'	E507117-11A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH04-5'	E507117-12A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH04-7'	E507117-13A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH04-9'	E507117-14A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH04-11'	E507117-15A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH04-13'	E507117-16A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.
PH04-15'	E507117-17A	Soil	07/10/25	07/14/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH02-0'

E507117-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	56.8	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	220	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	07/15/25	07/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	474	20.0	1	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH02-1'

E507117-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.6 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	07/15/25	07/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	573	100	5	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH02-2'

E507117-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.5 %	70-130		07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.9 %	70-130		07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>	105 %	61-141		07/15/25	07/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	245	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH03-0'

E507117-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	100 %	70-130		07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	1060	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		07/15/25	07/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	3240	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH03-1'

E507117-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	0.212	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	0.409	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	0.538	0.0500	1	07/14/25	07/17/25	
Total Xylenes	0.947	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		141 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	34.2	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.9 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	1830	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	07/15/25	07/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	2460	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH03-3'

E507117-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		07/15/25	07/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	830	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH03-5'

E507117-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
	107 %	61-141		07/15/25	07/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	537	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH03-7'

E507117-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529011
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2529034
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
	110 %	61-141		07/15/25	07/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2529025
Chloride	457	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH04-0'

E507117-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529011
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	0.208	0.0250	1	07/14/25	07/17/25	
Toluene	0.0445	0.0250	1	07/14/25	07/17/25	
o-Xylene	1.64	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	0.659	0.0500	1	07/14/25	07/17/25	
Total Xylenes	2.30	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		113 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529011
Gasoline Range Organics (C6-C10)	48.5	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.4 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2529034
Diesel Range Organics (C10-C28)	9370	25.0	1	07/15/25	07/16/25	T9
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
		123 %	61-141	07/15/25	07/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2529025
Chloride	936	40.0	2	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH04-1'

E507117-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529011
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	0.829	0.0250	1	07/14/25	07/17/25	
Toluene	0.125	0.0250	1	07/14/25	07/17/25	
o-Xylene	1.04	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	1.73	0.0500	1	07/14/25	07/17/25	
Total Xylenes	2.77	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		137 %	70-130	07/14/25	07/17/25	SS
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529011
Gasoline Range Organics (C6-C10)	55.9	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.2 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2529034
Diesel Range Organics (C10-C28)	8590	25.0	1	07/15/25	07/16/25	T9
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
		121 %	61-141	07/15/25	07/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2529025
Chloride	1190	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH04-3'

E507117-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	0.0533	0.0500	1	07/14/25	07/17/25	
Total Xylenes	0.0533	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.1 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	07/15/25	07/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	812	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH04-5'

E507117-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	07/15/25	07/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	1020	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH04-7'

E507117-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529011
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2529011
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.6 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2529034
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	07/15/25	07/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2529025
Chloride	910	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH04-9'

E507117-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.7 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
		112 %	61-141	07/15/25	07/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	799	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH04-11'

E507117-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	07/15/25	07/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	577	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH04-13'

E507117-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	07/15/25	07/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	600	200	10	07/14/25	07/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/21/2025 1:49:57PM

PH04-15'

E507117-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Benzene	ND	0.0250	1	07/14/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/14/25	07/17/25	
Toluene	ND	0.0250	1	07/14/25	07/17/25	
o-Xylene	ND	0.0250	1	07/14/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/14/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/14/25	07/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2529011	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/14/25	07/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.0 %	70-130	07/14/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2529034	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/25	07/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/25	07/16/25	
<i>Surrogate: n-Nonane</i>						
		96.9 %	61-141	07/15/25	07/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2529025	
Chloride	314	20.0	1	07/14/25	07/15/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/21/2025 1:49:57PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2529011-BLK1)

Prepared: 07/14/25 Analyzed: 07/17/25

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	8.00		8.00		100	70-130			

LCS (2529011-BS1)

Prepared: 07/14/25 Analyzed: 07/17/25

Benzene	4.92	0.0250	5.00		98.4	70-130			
Ethylbenzene	4.81	0.0250	5.00		96.1	70-130			
Toluene	4.88	0.0250	5.00		97.6	70-130			
o-Xylene	4.72	0.0250	5.00		94.3	70-130			
p,m-Xylene	9.67	0.0500	10.0		96.7	70-130			
Total Xylenes	14.4	0.0250	15.0		95.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			

Matrix Spike (2529011-MS1)

Source: E507117-05

Prepared: 07/14/25 Analyzed: 07/17/25

Benzene	5.33	0.0250	5.00	ND	107	70-130			
Ethylbenzene	5.44	0.0250	5.00	0.212	105	70-130			
Toluene	5.32	0.0250	5.00	ND	106	70-130			
o-Xylene	5.58	0.0250	5.00	0.409	104	70-130			
p,m-Xylene	10.9	0.0500	10.0	0.538	104	70-130			
Total Xylenes	16.5	0.0250	15.0	0.947	104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.99		8.00		112	70-130			

Matrix Spike Dup (2529011-MSD1)

Source: E507117-05

Prepared: 07/14/25 Analyzed: 07/17/25

Benzene	5.58	0.0250	5.00	ND	112	70-130	4.43	27	
Ethylbenzene	5.68	0.0250	5.00	0.212	109	70-130	4.37	26	
Toluene	5.56	0.0250	5.00	ND	111	70-130	4.35	20	
o-Xylene	6.01	0.0250	5.00	0.409	112	70-130	7.42	25	
p,m-Xylene	11.4	0.0500	10.0	0.538	109	70-130	4.17	23	
Total Xylenes	17.4	0.0250	15.0	0.947	110	70-130	5.28	26	
Surrogate: 4-Bromochlorobenzene-PID	8.83		8.00		110	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/21/2025 1:49:57PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2529011-BLK1) Prepared: 07/14/25 Analyzed: 07/17/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

LCS (2529011-BS2) Prepared: 07/14/25 Analyzed: 07/17/25

Gasoline Range Organics (C6-C10)	41.1	20.0	50.0		82.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.7	70-130			

Matrix Spike (2529011-MS2) Source: E507117-05 Prepared: 07/14/25 Analyzed: 07/17/25

Gasoline Range Organics (C6-C10)	76.9	20.0	50.0	34.2	85.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130			

Matrix Spike Dup (2529011-MSD2) Source: E507117-05 Prepared: 07/14/25 Analyzed: 07/17/25

Gasoline Range Organics (C6-C10)	81.1	20.0	50.0	34.2	93.7	70-130	5.25	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/21/2025 1:49:57PM

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
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Blank (2529034-BLK1)					Prepared: 07/15/25 Analyzed: 07/16/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	61-141			

LCS (2529034-BS1)					Prepared: 07/15/25 Analyzed: 07/16/25				
Diesel Range Organics (C10-C28)	265	25.0	250		106	66-144			
Surrogate: n-Nonane	50.4		50.0		101	61-141			

Matrix Spike (2529034-MS1)					Source: E507117-02		Prepared: 07/15/25 Analyzed: 07/16/25		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	56-156			
Surrogate: n-Nonane	52.3		50.0		105	61-141			

Matrix Spike Dup (2529034-MSD1)					Source: E507117-02		Prepared: 07/15/25 Analyzed: 07/16/25		
Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	56-156	4.59	20	
Surrogate: n-Nonane	53.9		50.0		108	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/21/2025 1:49:57PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2529025-BLK1)					Prepared: 07/14/25 Analyzed: 07/15/25				
Chloride	ND	20.0							
LCS (2529025-BS1)					Prepared: 07/14/25 Analyzed: 07/15/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2529025-MS1)					Source: E507117-07		Prepared: 07/14/25 Analyzed: 07/15/25		
Chloride	937	200	250	537	160	80-120			M2
Matrix Spike Dup (2529025-MSD1)					Source: E507117-07		Prepared: 07/14/25 Analyzed: 07/15/25		
Chloride	799	200	250	537	105	80-120	15.9	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/21/25 13:49

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- T9 DRO includes undifferentiated early eluting analytes characteristic of GRO.
- 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: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E507117	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/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
815	7/10/25	Soil	1	PH02-0'		1								X		3.6		
819				↓ -1'		2								X		3.4		
824				↓ -2'		3								X		3.8		
910				PH03-0'		4								X		4.1		
919				↓ 1'		5								X		4.0		
924				↓ 3'		6								X		4.2		
938				↓ 5'		7								X		3.8		
1005				↓ 7'		8								X		3.6		
1059				PH04-0'		9								X		4.0		
1102				↓ 1'		10								X		4.0		
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											
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: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E507117	230030002				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/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		
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp			Remarks
1109	7/10/25	soil	1	PH04-3'		11								X			34			
1144				5'		12								X			34			
1318				7'		13								X			3.8			
1343				9'		14								X			3.6			
1419				11'		15								X			4.0			
1520				13'		16								X			3.8			
1548				15'		17								X			3.6			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by: 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														
Michelle Gonzales	7-11-25	7:11	Michelle Gonzales	7-11-25	0711															
Michelle Gonzales	7-11-25	1910	L.M.	7-11-25	1910															
L.M.	7-12-25	0200	Carla Mauer	7-14-25	730															
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time															
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																				
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																				
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Envirotech Analytical Laboratory

Printed: 7/14/2025 11:35:37AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	07/14/25 07:30	Work Order ID:	E507117
Phone:	(972) 371-5200	Date Logged In:	07/11/25 15:48	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	07/21/25 17:00 (5 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: Dr. Ireland State 16 139 Well Pad

Work Order: E507151

Job Number: 23003-0002

Received: 7/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/22/25

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: 7/22/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E507151
Date Received: 7/15/2025 6:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/15/2025 6:45:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad 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

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/22/25 17:21
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH05-0'	E507151-01A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH05-2'	E507151-02A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH05-4'	E507151-03A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH05-6'	E507151-04A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH05-8'	E507151-05A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH05-9'	E507151-06A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH06-0'	E507151-07A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH06-1'	E507151-08A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH06-3'	E507151-09A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH06-5'	E507151-10A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH06-7'	E507151-11A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH07-0'	E507151-12A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH07-2'	E507151-13A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH07-4'	E507151-14A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH07-6'	E507151-15A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH07-8'	E507151-16A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.
PH07-10'	E507151-17A	Soil	07/11/25	07/15/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH05-0'

E507151-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	07/16/25	07/19/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/16/25	07/19/25	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	3500	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	553	50.0	1	07/17/25	07/17/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	07/17/25	07/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	730	40.0	2	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH05-2'

E507151-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		100 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		97.8 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		100 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		97.8 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		98.8 %	61-141	07/17/25	07/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	674	200	10	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH05-4'

E507151-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		102 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		99.5 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		102 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		99.5 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		99.9 %	61-141	07/17/25	07/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	941	200	10	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH05-6'

E507151-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		101 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		99.9 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		101 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		99.9 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		99.2 %	61-141	07/17/25	07/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	768	200	10	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH05-8'

E507151-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		102 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		100 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		102 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		100 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		106 %	61-141	07/17/25	07/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	901	200	10	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH05-9'

E507151-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene	98.0 %	70-130		07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/16/25	07/19/25	
Surrogate: Toluene-d8	102 %	70-130		07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene	98.0 %	70-130		07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130		07/16/25	07/19/25	
Surrogate: Toluene-d8	102 %	70-130		07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane	104 %	61-141		07/17/25	07/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	444	200	10	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH06-0'

E507151-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	0.0370	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	0.0370	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		101 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		101 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		101 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		101 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	4050	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	67.3	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		97.7 %	61-141	07/17/25	07/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	125	20.0	1	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH06-1'

E507151-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		102 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		96.3 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	23.7	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		102 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		96.3 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		100 %	61-141	07/17/25	07/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	2750	200	10	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH06-3'

E507151-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		101 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		99.6 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		101 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		99.6 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/18/25	
Surrogate: n-Nonane		104 %	61-141	07/17/25	07/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	700	200	10	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH06-5'

E507151-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		101 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		102 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		101 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		102 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/18/25	
Surrogate: n-Nonane		99.4 %	61-141	07/17/25	07/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	465	200	10	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH06-7'

E507151-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene	99.6 %	70-130		07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		07/16/25	07/19/25	
Surrogate: Toluene-d8	99.3 %	70-130		07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene	99.6 %	70-130		07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		07/16/25	07/19/25	
Surrogate: Toluene-d8	99.3 %	70-130		07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/18/25	
Surrogate: n-Nonane	99.2 %	61-141		07/17/25	07/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	576	200	10	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH07-0'

E507151-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		102 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		102 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		102 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		102 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	278	25.0	1	07/17/25	07/18/25	
Oil Range Organics (C28-C36)	76.3	50.0	1	07/17/25	07/18/25	
Surrogate: n-Nonane		101 %	61-141	07/17/25	07/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	340	20.0	1	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH07-2'

E507151-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene	97.8 %	70-130		07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		07/16/25	07/19/25	
Surrogate: Toluene-d8	100 %	70-130		07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene	97.8 %	70-130		07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		07/16/25	07/19/25	
Surrogate: Toluene-d8	100 %	70-130		07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/18/25	
Surrogate: n-Nonane	104 %	61-141		07/17/25	07/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	268	40.0	2	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH07-4'

E507151-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		100 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		100 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		100 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		100 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/18/25	
Surrogate: n-Nonane		99.7 %	61-141	07/17/25	07/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	1010	200	10	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH07-6'

E507151-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene	97.6 %	70-130		07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		07/16/25	07/19/25	
Surrogate: Toluene-d8	100 %	70-130		07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene	97.6 %	70-130		07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130		07/16/25	07/19/25	
Surrogate: Toluene-d8	100 %	70-130		07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/18/25	
Surrogate: n-Nonane	98.6 %	61-141		07/17/25	07/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	883	200	10	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH07-8'

E507151-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene	99.4 %	70-130		07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/16/25	07/19/25	
Surrogate: Toluene-d8	102 %	70-130		07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene	99.4 %	70-130		07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		07/16/25	07/19/25	
Surrogate: Toluene-d8	102 %	70-130		07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/18/25	
Surrogate: n-Nonane	98.5 %	61-141		07/17/25	07/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	593	200	10	07/17/25	07/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
7/22/2025 5:21:47PM

PH07-10'

E507151-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Benzene	ND	0.0250	1	07/16/25	07/19/25	
Ethylbenzene	ND	0.0250	1	07/16/25	07/19/25	
Toluene	ND	0.0250	1	07/16/25	07/19/25	
o-Xylene	ND	0.0250	1	07/16/25	07/19/25	
p,m-Xylene	ND	0.0500	1	07/16/25	07/19/25	
Total Xylenes	ND	0.0250	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		101 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		103 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2529089
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/25	07/19/25	
Surrogate: Bromofluorobenzene		101 %	70-130	07/16/25	07/19/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	07/16/25	07/19/25	
Surrogate: Toluene-d8		103 %	70-130	07/16/25	07/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2529135
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/18/25	
Surrogate: n-Nonane		99.6 %	61-141	07/17/25	07/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2529150
Chloride	462	200	10	07/17/25	07/18/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/22/2025 5:21:47PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

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

Blank (2529089-BLK1)

Prepared: 07/16/25 Analyzed: 07/19/25

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	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

LCS (2529089-BS1)

Prepared: 07/16/25 Analyzed: 07/19/25

Benzene	2.48	0.0250	2.50		99.2	70-130			
Ethylbenzene	2.48	0.0250	2.50		99.3	70-130			
Toluene	2.43	0.0250	2.50		97.1	70-130			
o-Xylene	2.46	0.0250	2.50		98.2	70-130			
p,m-Xylene	4.91	0.0500	5.00		98.2	70-130			
Total Xylenes	7.37	0.0250	7.50		98.2	70-130			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.540		0.500		108	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			

Matrix Spike (2529089-MS1)

Source: E507151-06

Prepared: 07/16/25 Analyzed: 07/19/25

Benzene	2.46	0.0250	2.50	ND	98.6	48-131			
Ethylbenzene	2.51	0.0250	2.50	ND	100	45-135			
Toluene	2.47	0.0250	2.50	ND	98.8	48-130			
o-Xylene	2.37	0.0250	2.50	ND	94.9	43-135			
p,m-Xylene	4.87	0.0500	5.00	ND	97.4	43-135			
Total Xylenes	7.24	0.0250	7.50	ND	96.6	43-135			
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.542		0.500		108	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

Matrix Spike Dup (2529089-MSD1)

Source: E507151-06

Prepared: 07/16/25 Analyzed: 07/19/25

Benzene	2.50	0.0250	2.50	ND	100	48-131	1.51	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	1.31	27	
Toluene	2.54	0.0250	2.50	ND	102	48-130	2.72	24	
o-Xylene	2.43	0.0250	2.50	ND	97.0	43-135	2.27	27	
p,m-Xylene	4.90	0.0500	5.00	ND	97.9	43-135	0.543	27	
Total Xylenes	7.32	0.0250	7.50	ND	97.6	43-135	1.11	27	
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/22/2025 5:21:47PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2529089-BLK1)

Prepared: 07/16/25 Analyzed: 07/19/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

LCS (2529089-BS2)

Prepared: 07/16/25 Analyzed: 07/19/25

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.5	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.529		0.500		106	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

Matrix Spike (2529089-MS2)

Source: E507151-06

Prepared: 07/16/25 Analyzed: 07/19/25

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.7	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.524		0.500		105	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

Matrix Spike Dup (2529089-MSD2)

Source: E507151-06

Prepared: 07/16/25 Analyzed: 07/19/25

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.3	70-130	0.628	20	
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.525		0.500		105	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/22/2025 5:21:47PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2529135-BLK1)					Prepared: 07/17/25 Analyzed: 07/17/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.7		50.0		97.5	61-141			

LCS (2529135-BS1)					Prepared: 07/17/25 Analyzed: 07/17/25				
Diesel Range Organics (C10-C28)	256	25.0	250		103	66-144			
Surrogate: n-Nonane	48.6		50.0		97.3	61-141			

Matrix Spike (2529135-MS1)					Source: E507151-08		Prepared: 07/17/25 Analyzed: 07/17/25		
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	50.2		50.0		100	61-141			

Matrix Spike Dup (2529135-MSD1)					Source: E507151-08		Prepared: 07/17/25 Analyzed: 07/17/25		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	56-156	2.21	20	
Surrogate: n-Nonane	51.1		50.0		102	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/22/2025 5:21:47PM
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Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2529150-BLK1)					Prepared: 07/17/25 Analyzed: 07/18/25				
Chloride	ND	20.0							
LCS (2529150-BS1)					Prepared: 07/17/25 Analyzed: 07/18/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2529150-MS1)					Source: E507151-06		Prepared: 07/17/25 Analyzed: 07/18/25		
Chloride	690	200	250	444	98.3	80-120			
Matrix Spike Dup (2529150-MSD1)					Source: E507151-06		Prepared: 07/17/25 Analyzed: 07/18/25		
Chloride	722	200	250	444	111	80-120	4.53	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/22/25 17:21

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# E507151				Job Number 23003-0002				1D 2D 3D Std x							
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy												NM CO UT TX							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220												x							
Address: 3122 National Parks Hwy				Phone: 575-988-0055																			
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																			
Phone: 575-988-0055				Miscellaneous:																			
Email: agiovengo@ensolum.com																							
Sample Information												Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA					
740	7/11/25	Soil	1	PH05-0'		1								X									
803				2'		2								X									
824				4'		3								X									
845				6'		4								X									
904				8'		5								X									
918				9'		6								X									
1011				PH06-0'		7								X									
1015				-1'		8								X									
1028				3'		9								X									
1040				5'		10								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													
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: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E507151	93003-002				X	X							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/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	
1049	7/11/25	Soil	1	PH06-7'		11									X	3.6			
1304				PH07-0'		12									X	3.4			
1310				2'		13									X	2.8			
1320				4'		14									X	2.6			
1337				6'		15									X	2.4			
1411				8'		16									X	3.0			
1421				10'		17									X	3.2			
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									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 7/15/2025 11:00:58AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	07/15/25 06:45	Work Order ID:	E507151
Phone:	(972) 371-5200	Date Logged In:	07/14/25 14:52	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	07/22/25 17:00 (5 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.

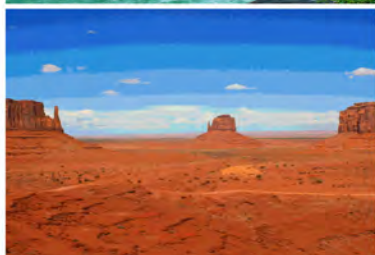
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E508032

Job Number: 23003-0002

Received: 8/5/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/11/25

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: 8/11/25

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



Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E508032
Date Received: 8/5/2025 6:45:34AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/5/2025 6:45:34AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/11/25 09:43
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01-0'	E508032-01A	Soil	08/01/25	08/05/25	Glass Jar, 2 oz.
PH01-0.5'	E508032-02A	Soil	08/01/25	08/05/25	Glass Jar, 2 oz.
PH01-1'	E508032-03A	Soil	08/01/25	08/05/25	Glass Jar, 2 oz.
PH01-2'	E508032-04A	Soil	08/01/25	08/05/25	Glass Jar, 2 oz.
PH01-3'	E508032-05A	Soil	08/01/25	08/05/25	Glass Jar, 2 oz.
PH01-4'	E508032-06A	Soil	08/01/25	08/05/25	Glass Jar, 2 oz.
PH01-6'	E508032-07A	Soil	08/01/25	08/05/25	Glass Jar, 2 oz.
PH01-8'	E508032-08A	Soil	08/01/25	08/05/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/11/2025 9:43:43AM

PH01-0'

E508032-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Benzene	ND	0.0250	1	08/06/25	08/07/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/07/25	
Toluene	ND	0.0250	1	08/06/25	08/07/25	
o-Xylene	ND	0.0250	1	08/06/25	08/07/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/07/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/07/25	
<i>Surrogate: Bromofluorobenzene</i>		109 %	70-130	08/06/25	08/07/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %	70-130	08/06/25	08/07/25	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/07/25	
<i>Surrogate: Bromofluorobenzene</i>		109 %	70-130	08/06/25	08/07/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %	70-130	08/06/25	08/07/25	
<i>Surrogate: Toluene-d8</i>		102 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2532104
Diesel Range Organics (C10-C28)	2720	25.0	1	08/07/25	08/07/25	
Oil Range Organics (C28-C36)	520	50.0	1	08/07/25	08/07/25	
<i>Surrogate: n-Nonane</i>		111 %	61-141	08/07/25	08/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2532084
Chloride	2790	40.0	2	08/06/25	08/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/11/2025 9:43:43AM

PH01-0.5'

E508032-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Benzene	ND	0.0250	1	08/06/25	08/07/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/07/25	
Toluene	ND	0.0250	1	08/06/25	08/07/25	
o-Xylene	ND	0.0250	1	08/06/25	08/07/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/07/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		109 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		100 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Gasoline Range Organics (C6-C10)	20.4	20.0	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		109 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		100 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2532104
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/25	08/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/25	08/07/25	
Surrogate: n-Nonane		114 %	61-141	08/07/25	08/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2532084
Chloride	1160	100	5	08/06/25	08/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/11/2025 9:43:43AM

PH01-1'

E508032-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Benzene	ND	0.0250	1	08/06/25	08/07/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/07/25	
Toluene	ND	0.0250	1	08/06/25	08/07/25	
o-Xylene	ND	0.0250	1	08/06/25	08/07/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/07/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		110 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		101 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		110 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		101 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2532104
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/25	08/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/25	08/07/25	
Surrogate: n-Nonane		113 %	61-141	08/07/25	08/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2532084
Chloride	1920	100	5	08/06/25	08/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/11/2025 9:43:43AM

PH01-2'

E508032-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Benzene	ND	0.0250	1	08/06/25	08/07/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/07/25	
Toluene	ND	0.0250	1	08/06/25	08/07/25	
o-Xylene	ND	0.0250	1	08/06/25	08/07/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/07/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		108 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		99.2 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		108 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		99.2 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2532104
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/25	08/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/25	08/07/25	
Surrogate: n-Nonane		110 %	61-141	08/07/25	08/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2532084
Chloride	1970	100	5	08/06/25	08/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/11/2025 9:43:43AM

PH01-3'
E508032-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Benzene	ND	0.0250	1	08/06/25	08/07/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/07/25	
Toluene	ND	0.0250	1	08/06/25	08/07/25	
o-Xylene	ND	0.0250	1	08/06/25	08/07/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/07/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		109 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		102 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		109 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		102 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2532104
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/25	08/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/25	08/07/25	
Surrogate: n-Nonane		119 %	61-141	08/07/25	08/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2532084
Chloride	1290	200	10	08/06/25	08/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/11/2025 9:43:43AM

PH01-4'

E508032-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Benzene	ND	0.0250	1	08/06/25	08/07/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/07/25	
Toluene	ND	0.0250	1	08/06/25	08/07/25	
o-Xylene	ND	0.0250	1	08/06/25	08/07/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/07/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		110 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		101 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		110 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		101 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2532104
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/25	08/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/25	08/07/25	
Surrogate: n-Nonane		117 %	61-141	08/07/25	08/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2532084
Chloride	754	200	10	08/06/25	08/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/11/2025 9:43:43AM

PH01-6'

E508032-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Benzene	ND	0.0250	1	08/06/25	08/07/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/07/25	
Toluene	ND	0.0250	1	08/06/25	08/07/25	
o-Xylene	ND	0.0250	1	08/06/25	08/07/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/07/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		109 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		102 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		109 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		102 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2532104
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/25	08/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/25	08/07/25	
Surrogate: n-Nonane		115 %	61-141	08/07/25	08/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2532084
Chloride	478	100	5	08/06/25	08/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/11/2025 9:43:43AM

PH01-8'

E508032-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Benzene	ND	0.0250	1	08/06/25	08/07/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/07/25	
Toluene	ND	0.0250	1	08/06/25	08/07/25	
o-Xylene	ND	0.0250	1	08/06/25	08/07/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/07/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		111 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		102 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2532066
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/07/25	
Surrogate: Bromofluorobenzene		111 %	70-130	08/06/25	08/07/25	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	08/06/25	08/07/25	
Surrogate: Toluene-d8		102 %	70-130	08/06/25	08/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2532104
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/25	08/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/25	08/07/25	
Surrogate: n-Nonane		118 %	61-141	08/07/25	08/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2532084
Chloride	531	100	5	08/06/25	08/07/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/11/2025 9:43:43AM

Volatile Organic Compounds by EPA 8260B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2532066-BLK1)

Prepared: 08/06/25 Analyzed: 08/07/25

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	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS (2532066-BS1)

Prepared: 08/06/25 Analyzed: 08/07/25

Benzene	2.28	0.0250	2.50		91.2	70-130			
Ethylbenzene	2.31	0.0250	2.50		92.3	70-130			
Toluene	2.25	0.0250	2.50		90.1	70-130			
o-Xylene	2.25	0.0250	2.50		90.1	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.3	70-130			
Total Xylenes	6.87	0.0250	7.50		91.6	70-130			
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

Matrix Spike (2532066-MS1)

Source: E508032-06

Prepared: 08/06/25 Analyzed: 08/07/25

Benzene	2.43	0.0250	2.50	ND	97.1	48-131			
Ethylbenzene	2.47	0.0250	2.50	ND	98.6	45-135			
Toluene	2.38	0.0250	2.50	ND	95.2	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.3	43-135			
p,m-Xylene	4.82	0.0500	5.00	ND	96.3	43-135			
Total Xylenes	7.17	0.0250	7.50	ND	95.7	43-135			
Surrogate: Bromofluorobenzene	0.543		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

Matrix Spike Dup (2532066-MSD1)

Source: E508032-06

Prepared: 08/06/25 Analyzed: 08/07/25

Benzene	2.45	0.0250	2.50	ND	98.1	48-131	1.05	23	
Ethylbenzene	2.49	0.0250	2.50	ND	99.8	45-135	1.13	27	
Toluene	2.40	0.0250	2.50	ND	95.9	48-130	0.775	24	
o-Xylene	2.46	0.0250	2.50	ND	98.3	43-135	4.22	27	
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135	3.93	27	
Total Xylenes	7.47	0.0250	7.50	ND	99.6	43-135	4.02	27	
Surrogate: Bromofluorobenzene	0.551		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/11/2025 9:43:43AM

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
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Blank (2532066-BLK1)

Prepared: 08/06/25 Analyzed: 08/07/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS (2532066-BS2)

Prepared: 08/06/25 Analyzed: 08/07/25

Gasoline Range Organics (C6-C10)	38.5	20.0	50.0		77.0	70-130			
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

Matrix Spike (2532066-MS2)

Source: E508032-06

Prepared: 08/06/25 Analyzed: 08/07/25

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.7	70-130			
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Matrix Spike Dup (2532066-MSD2)

Source: E508032-06

Prepared: 08/06/25 Analyzed: 08/07/25

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.3	70-130	3.77	20	
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/11/2025 9:43:43AM

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
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Blank (2532104-BLK1)					Prepared: 08/07/25 Analyzed: 08/07/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.4		50.0		109	61-141			

LCS (2532104-BS1)					Prepared: 08/07/25 Analyzed: 08/07/25				
Diesel Range Organics (C10-C28)	286	25.0	250		115	66-144			
Surrogate: n-Nonane	57.1		50.0		114	61-141			

Matrix Spike (2532104-MS1)					Source: E508032-05		Prepared: 08/07/25 Analyzed: 08/07/25		
Diesel Range Organics (C10-C28)	294	25.0	250	ND	118	56-156			
Surrogate: n-Nonane	58.1		50.0		116	61-141			

Matrix Spike Dup (2532104-MSD1)					Source: E508032-05		Prepared: 08/07/25 Analyzed: 08/07/25		
Diesel Range Organics (C10-C28)	318	25.0	250	ND	127	56-156	8.01	20	
Surrogate: n-Nonane	62.3		50.0		125	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/11/2025 9:43:43AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2532084-BLK1)					Prepared: 08/06/25 Analyzed: 08/07/25				
Chloride	ND	20.0							
LCS (2532084-BS1)					Prepared: 08/06/25 Analyzed: 08/07/25				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2532084-MS1)					Source: E508030-03		Prepared: 08/06/25 Analyzed: 08/07/25		
Chloride	572	20.0	250	260	125	80-120			M1
Matrix Spike Dup (2532084-MSD1)					Source: E508030-03		Prepared: 08/06/25 Analyzed: 08/07/25		
Chloride	528	20.0	250	260	107	80-120	8.07	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/11/25 09:43

- M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Envirotech Analytical Laboratory

Printed: 8/5/2025 10:17:07AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	08/05/25 06:45	Work Order ID:	E508032
Phone:	(972) 371-5200	Date Logged In:	08/04/25 16:15	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	08/11/25 07:00 (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

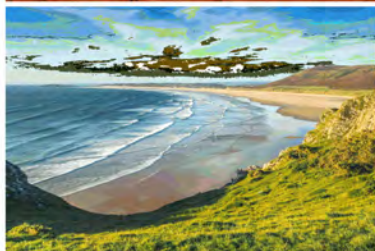
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E509160

Job Number: 23003-0002

Received: 9/18/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/18/25

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: 9/18/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E509160
Date Received: 9/18/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/18/2025 7:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad 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

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Sample Summary

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported: 09/18/25 13:56
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS309-3'	E509160-01A	Soil	09/15/25	09/18/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name: Dr. Ireland State 16 139 Well Pad

Project Number: 23003-0002

Project Manager: Ashley Giovengo

Reported:

9/18/2025 1:56:08PM

FS309-3'**E509160-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2538079	
Benzene	ND	0.0250	1	09/18/25	09/18/25	
Ethylbenzene	ND	0.0250	1	09/18/25	09/18/25	
Toluene	ND	0.0250	1	09/18/25	09/18/25	
o-Xylene	ND	0.0250	1	09/18/25	09/18/25	
p,m-Xylene	ND	0.0500	1	09/18/25	09/18/25	
Total Xylenes	ND	0.0250	1	09/18/25	09/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.3 %	70-130		09/18/25	09/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2538079	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/25	09/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.0 %	70-130		09/18/25	09/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2538057	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/17/25	09/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/17/25	09/18/25	
<i>Surrogate: n-Nonane</i>	89.8 %	61-141		09/17/25	09/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2538081	
Chloride	86.1	20.0	1	09/18/25	09/18/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/18/2025 1:56:08PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2538079-BLK1)

Prepared: 09/18/25 Analyzed: 09/18/25

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	8.38		8.00		105	70-130			

LCS (2538079-BS1)

Prepared: 09/18/25 Analyzed: 09/18/25

Benzene	4.95	0.0250	5.00		99.0	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.7	70-130			
Toluene	4.96	0.0250	5.00		99.3	70-130			
o-Xylene	4.98	0.0250	5.00		99.5	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		99.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.58		8.00		107	70-130			

Matrix Spike (2538079-MS1)

Source: E509160-01

Prepared: 09/18/25 Analyzed: 09/18/25

Benzene	5.69	0.0250	5.00	ND	114	70-130			
Ethylbenzene	5.65	0.0250	5.00	ND	113	70-130			
Toluene	5.68	0.0250	5.00	ND	114	70-130			
o-Xylene	5.69	0.0250	5.00	ND	114	70-130			
p,m-Xylene	11.4	0.0500	10.0	ND	114	70-130			
Total Xylenes	17.1	0.0250	15.0	ND	114	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			

Matrix Spike Dup (2538079-MSD1)

Source: E509160-01

Prepared: 09/18/25 Analyzed: 09/18/25

Benzene	5.28	0.0250	5.00	ND	106	70-130	7.46	27	
Ethylbenzene	5.24	0.0250	5.00	ND	105	70-130	7.48	26	
Toluene	5.26	0.0250	5.00	ND	105	70-130	7.63	20	
o-Xylene	5.22	0.0250	5.00	ND	104	70-130	8.54	25	
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	7.63	23	
Total Xylenes	15.8	0.0250	15.0	ND	105	70-130	7.93	26	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/18/2025 1:56:08PM

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
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Blank (2538079-BLK1) Prepared: 09/18/25 Analyzed: 09/18/25

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

LCS (2538079-BS2) Prepared: 09/18/25 Analyzed: 09/18/25

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.8	70-130			

Matrix Spike (2538079-MS2) Source: E509160-01 Prepared: 09/18/25 Analyzed: 09/18/25

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

Matrix Spike Dup (2538079-MSD2) Source: E509160-01 Prepared: 09/18/25 Analyzed: 09/18/25

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130	6.32	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/18/2025 1:56:08PM

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
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Blank (2538057-BLK1)					Prepared: 09/17/25 Analyzed: 09/18/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.5		50.0		89.1	61-141			

LCS (2538057-BS1)					Prepared: 09/17/25 Analyzed: 09/18/25				
Diesel Range Organics (C10-C28)	228	25.0	250		91.1	66-144			
Surrogate: n-Nonane	44.5		50.0		89.0	61-141			

Matrix Spike (2538057-MS1)					Source: E509170-08		Prepared: 09/17/25 Analyzed: 09/18/25		
Diesel Range Organics (C10-C28)	219	25.0	250	ND	87.5	56-156			
Surrogate: n-Nonane	43.1		50.0		86.2	61-141			

Matrix Spike Dup (2538057-MSD1)					Source: E509170-08		Prepared: 09/17/25 Analyzed: 09/18/25		
Diesel Range Organics (C10-C28)	223	25.0	250	ND	89.4	56-156	2.08	20	
Surrogate: n-Nonane	44.0		50.0		88.0	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/18/2025 1:56:08PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2538081-BLK1)					Prepared: 09/18/25 Analyzed: 09/18/25				
Chloride	ND	20.0							
LCS (2538081-BS1)					Prepared: 09/18/25 Analyzed: 09/18/25				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2538081-MS1)					Source: E509160-01		Prepared: 09/18/25 Analyzed: 09/18/25		
Chloride	368	20.0	250	86.1	113	80-120			
Matrix Spike Dup (2538081-MSD1)					Source: E509160-01		Prepared: 09/18/25 Analyzed: 09/18/25		
Chloride	360	20.0	250	86.1	110	80-120	2.12	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/18/25 13:56

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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX				
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E509160	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	BEDOC - NM	BEDOC - TX	SDWA	CWA	RCRA	
1204	09/15/2025	S	1	FS309-3'		1								X					
														X					
														X					
														X					
														X					
														X					
														X					
														X					
														X					
														X					
														X					
														X					
														X					
														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: Higinio Gonzalez, Eric Plugge																			
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>6</u> Y/N											
		09/16/25	1200			9-16-25	1200												
		9-16-25	1530			9-16-25	1530												
		9-16-25	2000			9-16-25	2000												
		9-17-25	0300			9-18-25	700												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 9/18/2025 8:10:37AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/18/25 07:00	Work Order ID:	E509160
Phone:	(972) 371-5200	Date Logged In:	09/16/25 14:46	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	09/18/25 17:00 (0 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.

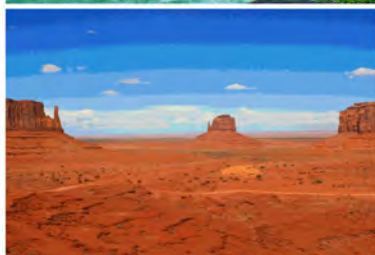
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E509180

Job Number: 23003-0002

Received: 9/18/2025

Revision: 1

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
9/24/25

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: 9/24/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E509180
Date Received: 9/18/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/18/2025 7:45:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Cell: 775-287-1762
whinchman@envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported: 09/24/25 09:13
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS286-3'	E509180-01A	Soil	09/16/25	09/18/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/24/2025 9:13:44AM

FS286-3'

E509180-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2538088	
Benzene	ND	0.0250	1	09/18/25	09/19/25	
Ethylbenzene	ND	0.0250	1	09/18/25	09/19/25	
Toluene	ND	0.0250	1	09/18/25	09/19/25	
o-Xylene	ND	0.0250	1	09/18/25	09/19/25	
p,m-Xylene	ND	0.0500	1	09/18/25	09/19/25	
Total Xylenes	ND	0.0250	1	09/18/25	09/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.8 %	70-130		09/18/25	09/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2538088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/18/25	09/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.6 %	70-130		09/18/25	09/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2538086	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/18/25	09/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/18/25	09/19/25	
<i>Surrogate: n-Nonane</i>	94.7 %	61-141		09/18/25	09/19/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2538099	
Chloride	ND	200	10	09/18/25	09/18/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/24/2025 9:13:44AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2538088-BLK1)

Prepared: 09/18/25 Analyzed: 09/19/25

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	7.41		8.00		92.7	70-130			

LCS (2538088-BS1)

Prepared: 09/18/25 Analyzed: 09/19/25

Benzene	4.52	0.0250	5.00		90.4	70-130			
Ethylbenzene	4.51	0.0250	5.00		90.1	70-130			
Toluene	4.55	0.0250	5.00		91.1	70-130			
o-Xylene	4.58	0.0250	5.00		91.6	70-130			
p,m-Xylene	9.11	0.0500	10.0		91.1	70-130			
Total Xylenes	13.7	0.0250	15.0		91.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.7	70-130			

Matrix Spike (2538088-MS1)

Source: E509179-01

Prepared: 09/18/25 Analyzed: 09/19/25

Benzene	3.88	0.0250	5.00	ND	77.6	70-130			
Ethylbenzene	3.85	0.0250	5.00	ND	77.0	70-130			
Toluene	3.90	0.0250	5.00	ND	77.9	70-130			
o-Xylene	3.96	0.0250	5.00	ND	79.2	70-130			
p,m-Xylene	7.82	0.0500	10.0	ND	78.2	70-130			
Total Xylenes	11.8	0.0250	15.0	ND	78.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.8	70-130			

Matrix Spike Dup (2538088-MSD1)

Source: E509179-01

Prepared: 09/18/25 Analyzed: 09/19/25

Benzene	4.24	0.0250	5.00	ND	84.8	70-130	8.86	27	
Ethylbenzene	4.21	0.0250	5.00	ND	84.3	70-130	9.06	26	
Toluene	4.27	0.0250	5.00	ND	85.3	70-130	9.08	20	
o-Xylene	4.32	0.0250	5.00	ND	86.3	70-130	8.63	25	
p,m-Xylene	8.53	0.0500	10.0	ND	85.3	70-130	8.76	23	
Total Xylenes	12.8	0.0250	15.0	ND	85.7	70-130	8.72	26	
Surrogate: 4-Bromochlorobenzene-PID	7.27		8.00		90.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/24/2025 9:13:44AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2538088-BLK1) Prepared: 09/18/25 Analyzed: 09/19/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		90.9	70-130			

LCS (2538088-BS2) Prepared: 09/18/25 Analyzed: 09/19/25

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

Matrix Spike (2538088-MS2) Source: E509179-01 Prepared: 09/18/25 Analyzed: 09/19/25

Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

Matrix Spike Dup (2538088-MSD2) Source: E509179-01 Prepared: 09/18/25 Analyzed: 09/19/25

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	90.9	70-130	7.98	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/24/2025 9:13:44AM

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
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Blank (2538086-BLK1)					Prepared: 09/18/25 Analyzed: 09/18/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.9		50.0		97.9	61-141			

LCS (2538086-BS1)					Prepared: 09/18/25 Analyzed: 09/18/25				
Diesel Range Organics (C10-C28)	255	25.0	250		102	66-144			
Surrogate: n-Nonane	48.6		50.0		97.1	61-141			

Matrix Spike (2538086-MS1)					Source: E509163-03		Prepared: 09/18/25 Analyzed: 09/18/25		
Diesel Range Organics (C10-C28)	278	25.0	250	35.5	96.8	56-156			
Surrogate: n-Nonane	49.6		50.0		99.2	61-141			

Matrix Spike Dup (2538086-MSD1)					Source: E509163-03		Prepared: 09/18/25 Analyzed: 09/18/25		
Diesel Range Organics (C10-C28)	272	25.0	250	35.5	94.7	56-156	1.93	20	
Surrogate: n-Nonane	47.5		50.0		94.9	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/24/2025 9:13:44AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2538099-BLK1)					Prepared: 09/18/25 Analyzed: 09/18/25				
Chloride	ND	20.0							
LCS (2538099-BS1)					Prepared: 09/18/25 Analyzed: 09/18/25				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2538099-MS1)					Source: E509182-03		Prepared: 09/18/25 Analyzed: 09/18/25		
Chloride	578	20.0	250	298	112	80-120			
Matrix Spike Dup (2538099-MSD1)					Source: E509182-03		Prepared: 09/18/25 Analyzed: 09/18/25		
Chloride	570	20.0	250	298	109	80-120	1.40	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/24/25 09:13

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client Information Client: Matador Project Name: Dr. Ireland State 16 139 Well Pad Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Invoice Information Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:				Lab Use Only Lab WO# E509180 Job Number 23003.0002				TAT 1D 2D 3D Std X				State NM CO UT TX X			
Analysis and Method												EPA Program							
DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 TCEQ 1005 - TX RCRA 8 Metals BGDOC - NM BGDOC - TX												SDWA CWA RCRA Compliance Y or N PWSID #							
Sample Information												Sample Temp Remarks							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number													
1222	9/16/25	S	1	FS286-3'		1													
		S	1																
		S	1																
		S	1																
		S	1																
		S	1																
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Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, lestrella@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: Higinio Gonzalez, Eric Plugge

Relinquished by: (Signature) <i>Eric Plugge</i>	Date 9/17/25	Time 700	Received by: (Signature) <i>Michelle Gonzalez</i>	Date 9-17-25	Time 0700	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) <i>Michelle Gonzalez</i>	Date 9-17-25	Time 1545	Received by: (Signature) <i>Marissa Gonzalez</i>	Date 9-17-25	Time 1545	
Relinquished by: (Signature) <i>Marissa Gonzalez</i>	Date 9-17-25	Time 1925	Received by: (Signature) <i>Andrew Musso</i>	Date 9-17-25	Time 1925	
Relinquished by: (Signature) <i>Andrew Musso</i>	Date 9-17-25	Time 2345	Received by: (Signature) <i>Caitlynn</i>	Date 9-18-25	Time 745	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 9/18/2025 10:35:23AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/18/25 07:45	Work Order ID:	E509180
Phone:	(972) 371-5200	Date Logged In:	09/18/25 09:06	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	09/24/25 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.

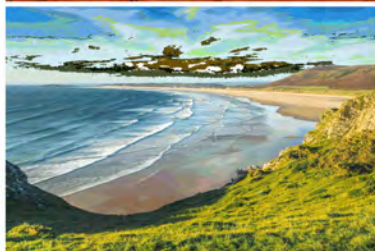
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E509200

Job Number: 23003-0002

Received: 9/19/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/25

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: 9/25/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E509200
Date Received: 9/19/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/19/2025 7:45:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported: 09/25/25 06:11
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS287-3'	E509200-01A	Soil	09/17/25	09/19/25	Glass Jar, 2 oz.
FS295-3'	E509200-02A	Soil	09/17/25	09/19/25	Glass Jar, 2 oz.
FS296-3'	E509200-03A	Soil	09/17/25	09/19/25	Glass Jar, 2 oz.
FS298-3'	E509200-04A	Soil	09/17/25	09/19/25	Glass Jar, 2 oz.
FS306-3'	E509200-05A	Soil	09/17/25	09/19/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/25/2025 6:11:06AM

FS287-3'

E509200-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2538112	
Benzene	ND	0.0250	1	09/19/25	09/20/25	
Ethylbenzene	ND	0.0250	1	09/19/25	09/20/25	
Toluene	ND	0.0250	1	09/19/25	09/20/25	
o-Xylene	ND	0.0250	1	09/19/25	09/20/25	
p,m-Xylene	ND	0.0500	1	09/19/25	09/20/25	
Total Xylenes	ND	0.0250	1	09/19/25	09/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	09/19/25	09/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2538112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/25	09/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	09/19/25	09/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539003	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/25	09/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/25	09/22/25	
<i>Surrogate: n-Nonane</i>		91.9 %	61-141	09/22/25	09/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2539020	
Chloride	218	200	10	09/22/25	09/22/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/25/2025 6:11:06AM

FS295-3'

E509200-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RKS		Batch: 2538112
Benzene	ND	0.0250	1	09/19/25	09/20/25	
Ethylbenzene	ND	0.0250	1	09/19/25	09/20/25	
Toluene	ND	0.0250	1	09/19/25	09/20/25	
o-Xylene	ND	0.0250	1	09/19/25	09/20/25	
p,m-Xylene	ND	0.0500	1	09/19/25	09/20/25	
Total Xylenes	ND	0.0250	1	09/19/25	09/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	09/19/25	09/20/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2538112
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/25	09/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	09/19/25	09/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: HM		Batch: 2539003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/25	09/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/25	09/22/25	
<i>Surrogate: n-Nonane</i>		99.2 %	61-141	09/22/25	09/22/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: RAS		Batch: 2539020
Chloride	ND	200	10	09/22/25	09/22/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/25/2025 6:11:06AM

FS296-3'

E509200-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2538112
Benzene	ND	0.0250	1	09/19/25	09/20/25	
Ethylbenzene	ND	0.0250	1	09/19/25	09/20/25	
Toluene	ND	0.0250	1	09/19/25	09/20/25	
o-Xylene	ND	0.0250	1	09/19/25	09/20/25	
p,m-Xylene	ND	0.0500	1	09/19/25	09/20/25	
Total Xylenes	ND	0.0250	1	09/19/25	09/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	09/19/25	09/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2538112
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/25	09/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.0 %	70-130	09/19/25	09/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/25	09/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/25	09/22/25	
<i>Surrogate: n-Nonane</i>						
		95.2 %	61-141	09/22/25	09/22/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2539020
Chloride	ND	200	10	09/22/25	09/22/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/25/2025 6:11:06AM

FS298-3'

E509200-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RKS		Batch: 2538112
Benzene	ND	0.0250	1	09/19/25	09/20/25	
Ethylbenzene	ND	0.0250	1	09/19/25	09/20/25	
Toluene	ND	0.0250	1	09/19/25	09/20/25	
o-Xylene	ND	0.0250	1	09/19/25	09/20/25	
p,m-Xylene	ND	0.0500	1	09/19/25	09/20/25	
Total Xylenes	ND	0.0250	1	09/19/25	09/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		111 %	70-130	09/19/25	09/20/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2538112
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/25	09/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.3 %	70-130	09/19/25	09/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: HM		Batch: 2539003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/25	09/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/25	09/22/25	
<i>Surrogate: n-Nonane</i>		90.8 %	61-141	09/22/25	09/22/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: RAS		Batch: 2539020
Chloride	278	200	10	09/22/25	09/22/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/25/2025 6:11:06AM

FS306-3'

E509200-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RKS		Batch: 2538112
Benzene	ND	0.0250	1	09/19/25	09/20/25	
Ethylbenzene	ND	0.0250	1	09/19/25	09/20/25	
Toluene	ND	0.0250	1	09/19/25	09/20/25	
o-Xylene	ND	0.0250	1	09/19/25	09/20/25	
p,m-Xylene	ND	0.0500	1	09/19/25	09/20/25	
Total Xylenes	ND	0.0250	1	09/19/25	09/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		111 %	70-130	09/19/25	09/20/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2538112
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/25	09/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	09/19/25	09/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: HM		Batch: 2539003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/22/25	09/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/22/25	09/22/25	
<i>Surrogate: n-Nonane</i>		92.5 %	61-141	09/22/25	09/22/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: RAS		Batch: 2539020
Chloride	ND	200	10	09/22/25	09/22/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/25/2025 6:11:06AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2538112-BLK1)

Prepared: 09/19/25 Analyzed: 09/19/25

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	9.18		8.00		115	70-130			

LCS (2538112-BS1)

Prepared: 09/19/25 Analyzed: 09/19/25

Benzene	4.62	0.0250	5.00		92.4	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.60	0.0250	5.00		92.0	70-130			
o-Xylene	4.69	0.0250	5.00		93.8	70-130			
p,m-Xylene	9.43	0.0500	10.0		94.3	70-130			
Total Xylenes	14.1	0.0250	15.0		94.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.96		8.00		112	70-130			

Matrix Spike (2538112-MS1)

Source: E509196-01

Prepared: 09/19/25 Analyzed: 09/19/25

Benzene	5.08	0.0250	5.00	ND	102	70-130			
Ethylbenzene	5.10	0.0250	5.00	ND	102	70-130			
Toluene	5.05	0.0250	5.00	ND	101	70-130			
o-Xylene	5.15	0.0250	5.00	ND	103	70-130			
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130			
Total Xylenes	15.5	0.0250	15.0	ND	103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.83		8.00		110	70-130			

Matrix Spike Dup (2538112-MSD1)

Source: E509196-01

Prepared: 09/19/25 Analyzed: 09/19/25

Benzene	4.93	0.0250	5.00	ND	98.7	70-130	2.86	27	
Ethylbenzene	4.98	0.0250	5.00	ND	99.6	70-130	2.42	26	
Toluene	4.92	0.0250	5.00	ND	98.4	70-130	2.63	20	
o-Xylene	5.03	0.0250	5.00	ND	101	70-130	2.33	25	
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130	2.43	23	
Total Xylenes	15.1	0.0250	15.0	ND	101	70-130	2.40	26	
Surrogate: 4-Bromochlorobenzene-PID	8.82		8.00		110	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/25/2025 6:11:06AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2538112-BLK1)

Prepared: 09/19/25 Analyzed: 09/19/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

LCS (2538112-BS2)

Prepared: 09/19/25 Analyzed: 09/19/25

Gasoline Range Organics (C6-C10)	57.9	20.0	50.0		116	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.7	70-130			

Matrix Spike (2538112-MS2)

Source: E509196-01

Prepared: 09/19/25 Analyzed: 09/19/25

Gasoline Range Organics (C6-C10)	57.6	20.0	50.0	ND	115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

Matrix Spike Dup (2538112-MSD2)

Source: E509196-01

Prepared: 09/19/25 Analyzed: 09/19/25

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130	2.11	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/25/2025 6:11:06AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539003-BLK1)					Prepared: 09/22/25 Analyzed: 09/22/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.3		50.0		88.6	61-141			

LCS (2539003-BS1)					Prepared: 09/22/25 Analyzed: 09/22/25				
Diesel Range Organics (C10-C28)	241	25.0	250		96.4	66-144			
Surrogate: n-Nonane	43.8		50.0		87.5	61-141			

Matrix Spike (2539003-MS1)					Source: E509202-03		Prepared: 09/22/25 Analyzed: 09/22/25		
Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	56-156			
Surrogate: n-Nonane	44.9		50.0		89.8	61-141			

Matrix Spike Dup (2539003-MSD1)					Source: E509202-03		Prepared: 09/22/25 Analyzed: 09/22/25		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	56-156	1.48	20	
Surrogate: n-Nonane	45.7		50.0		91.4	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/25/2025 6:11:06AM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539020-BLK1)					Prepared: 09/22/25 Analyzed: 09/22/25				
Chloride	ND	20.0							
LCS (2539020-BS1)					Prepared: 09/22/25 Analyzed: 09/22/25				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2539020-MS1)					Source: E509200-05		Prepared: 09/22/25 Analyzed: 09/22/25		
Chloride	356	200	250	ND	143	80-120			M5
Matrix Spike Dup (2539020-MSD1)					Source: E509200-05		Prepared: 09/22/25 Analyzed: 09/22/25		
Chloride	360	200	250	ND	144	80-120	1.09	20	M5

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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/25/25 06:11

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated 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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E504200	2303-0002				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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
09/11/15	09/11/15	S	1	FS287-3		1							X		2.5			
09/13		S	1	FS295-3		2							X		3.6			
11/4/5		S	1	FS296-3		3							X		1.5			
09/11		S	1	FS298-3		4							X		3.6			
11/19		S	1	FS306-3		5							X		1.7			
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										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: Higinio Gonzalez, Eric Plugge																		
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>CY/N</u>										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
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: 9/19/2025 1:29:24PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/19/25 07:45	Work Order ID:	E509200
Phone:	(972) 371-5200	Date Logged In:	09/18/25 16:24	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	09/25/25 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.

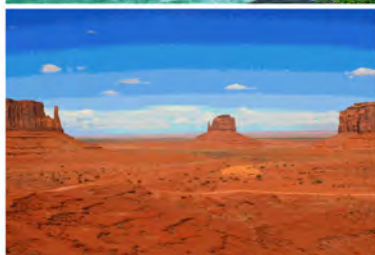
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E509227

Job Number: 23003-0002

Received: 9/22/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/26/25

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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/26/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E509227
Date Received: 9/22/2025 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/22/2025 6:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
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Sample Summary

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/26/25 13:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW02- 0-3'	E509227-01A	Soil	09/19/25	09/22/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 1:14:55PM

SW02- 0-3'

E509227-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539016	
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		119 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.9 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539119	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/25/25	
<i>Surrogate: n-Nonane</i>		97.1 %	61-141	09/25/25	09/25/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2539071	
Chloride	594	100	5	09/23/25	09/23/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2025 1:14:55PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539016-BLK1)

Prepared: 09/22/25 Analyzed: 09/24/25

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	9.45		8.00		118	70-130			

LCS (2539016-BS1)

Prepared: 09/22/25 Analyzed: 09/24/25

Benzene	4.78	0.0250	5.00		95.5	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130			
Toluene	4.81	0.0250	5.00		96.1	70-130			
o-Xylene	4.95	0.0250	5.00		99.0	70-130			
p,m-Xylene	9.90	0.0500	10.0		99.0	70-130			
Total Xylenes	14.9	0.0250	15.0		99.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.49		8.00		119	70-130			

Matrix Spike (2539016-MS1)

Source: E509229-03

Prepared: 09/22/25 Analyzed: 09/24/25

Benzene	4.76	0.0250	5.00	ND	95.2	70-130			
Ethylbenzene	4.83	0.0250	5.00	ND	96.5	70-130			
Toluene	4.78	0.0250	5.00	ND	95.6	70-130			
o-Xylene	4.91	0.0250	5.00	ND	98.3	70-130			
p,m-Xylene	9.79	0.0500	10.0	ND	97.9	70-130			
Total Xylenes	14.7	0.0250	15.0	ND	98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.49		8.00		119	70-130			

Matrix Spike Dup (2539016-MSD1)

Source: E509229-03

Prepared: 09/22/25 Analyzed: 09/24/25

Benzene	4.45	0.0250	5.00	ND	88.9	70-130	6.81	27	
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	70-130	6.35	26	
Toluene	4.47	0.0250	5.00	ND	89.4	70-130	6.63	20	
o-Xylene	4.61	0.0250	5.00	ND	92.2	70-130	6.41	25	
p,m-Xylene	9.20	0.0500	10.0	ND	92.0	70-130	6.25	23	
Total Xylenes	13.8	0.0250	15.0	ND	92.0	70-130	6.31	26	
Surrogate: 4-Bromochlorobenzene-PID	9.57		8.00		120	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2025 1:14:55PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539016-BLK1) Prepared: 09/22/25 Analyzed: 09/24/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

LCS (2539016-BS2) Prepared: 09/22/25 Analyzed: 09/24/25

Gasoline Range Organics (C6-C10)	54.4	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

Matrix Spike (2539016-MS2) Source: E509229-03 Prepared: 09/22/25 Analyzed: 09/24/25

Gasoline Range Organics (C6-C10)	56.9	20.0	50.0	ND	114	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

Matrix Spike Dup (2539016-MSD2) Source: E509229-03 Prepared: 09/22/25 Analyzed: 09/24/25

Gasoline Range Organics (C6-C10)	52.7	20.0	50.0	ND	105	70-130	7.59	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2025 1:14:55PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539119-BLK1)					Prepared: 09/25/25 Analyzed: 09/25/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.9		50.0		110	61-141			

LCS (2539119-BS1)					Prepared: 09/25/25 Analyzed: 09/25/25				
Diesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
Surrogate: n-Nonane	48.8		50.0		97.6	61-141			

Matrix Spike (2539119-MS1)					Source: E509284-02		Prepared: 09/25/25 Analyzed: 09/26/25		
Diesel Range Organics (C10-C28)	359	25.0	250	81.4	111	56-156			
Surrogate: n-Nonane	53.4		50.0		107	61-141			

Matrix Spike Dup (2539119-MSD1)					Source: E509284-02		Prepared: 09/25/25 Analyzed: 09/26/25		
Diesel Range Organics (C10-C28)	373	25.0	250	81.4	117	56-156	3.80	20	
Surrogate: n-Nonane	53.6		50.0		107	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/26/2025 1:14:55PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539071-BLK1)					Prepared: 09/23/25 Analyzed: 09/23/25				
Chloride	ND	20.0							
LCS (2539071-BS1)					Prepared: 09/23/25 Analyzed: 09/23/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2539071-MS1)					Source: E509223-05		Prepared: 09/23/25 Analyzed: 09/23/25		
Chloride	359	20.0	250	102	103	80-120			
Matrix Spike Dup (2539071-MSD1)					Source: E509223-05		Prepared: 09/23/25 Analyzed: 09/23/25		
Chloride	364	20.0	250	102	105	80-120	1.29	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/26/25 13:14

- 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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E 509227	23003-002				X	X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method						EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
0940	09-19-25	S	1	SLW 02-0-3'		1							X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										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: Higinio Gonzalez, Eric Plugge																		
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										
<i>[Signature]</i>		09-19-25	1430	<i>Michelle Gonzalez</i>		9-19-25	1430											
<i>Michelle Gonzalez</i>		9-19-25	1500	<i>Marissa Gonzalez</i>		9-19-25	1500											
<i>Marissa Gonzalez</i>		9-19-25	1900	<i>Andrew Musso</i>		9-19-25	1900											
<i>Andrew Musso</i>		9-19-25	2345	<i>Noe Soto</i>		9-22-25	0600											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		

Envirotech Analytical Laboratory

Printed: 9/22/2025 12:09:23PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/22/25 06:00	Work Order ID:	E509227
Phone:	(972) 371-5200	Date Logged In:	09/19/25 16:40	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	09/26/25 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.

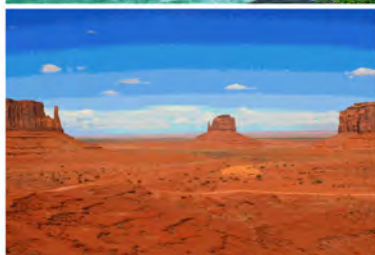
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E509230

Job Number: 23003-0002

Received: 9/22/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/26/25

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: 9/26/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E509230
Date Received: 9/22/2025 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/22/2025 6:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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Laboratory Administrator
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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Dr. Ireland State 16 139 Well Pad

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

09/26/25 14:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS261-3'	E509230-01A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS270-3'	E509230-02A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS271-3'	E509230-03A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS280-3'	E509230-04A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS281-3'	E509230-05A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS282-3'	E509230-06A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS289-3'	E509230-07A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS290-3'	E509230-08A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS291-3'	E509230-09A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS293-3'	E509230-10A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS294-3'	E509230-11A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS297-3'	E509230-12A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS299-3'	E509230-13A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS300-3'	E509230-14A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS301-3'	E509230-15A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS302-3'	E509230-16A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS303-3'	E509230-17A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS304-3'	E509230-18A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS305-3'	E509230-19A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS307-3'	E509230-20A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS308-3'	E509230-21A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS310-3'	E509230-22A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS311-3'	E509230-23A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS312-3'	E509230-24A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS313-3'	E509230-25A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS314-3'	E509230-26A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS315-3'	E509230-27A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS316-3'	E509230-28A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS317-3'	E509230-29A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS318-3'	E509230-30A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS319-3'	E509230-31A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS320-3'	E509230-32A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.
FS321-3'	E509230-33A	Soil	09/18/25	09/22/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS261-3'

E509230-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		122 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.3 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>		93.2 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539098	
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS270-3'

E509230-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		123 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.4 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>						
		93.3 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539098
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS271-3'

E509230-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		124 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.6 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>						
		92.8 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539098
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS280-3'

E509230-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		123 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.3 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>		91.8 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539098	
Chloride	246	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS281-3'

E509230-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		123 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.9 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>						
		94.7 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2539098	
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS282-3'

E509230-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		123 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>		89.1 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539098	
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS289-3'

E509230-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		123 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.3 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>						
		93.2 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539098
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS290-3'

E509230-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		123 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>						
		93.9 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539098
Chloride	187	20.0	1	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS291-3'

E509230-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		122 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>						
		90.2 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539098
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS293-3'

E509230-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		120 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.0 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>		90.8 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539098	
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS294-3'

E509230-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		123 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>		89.6 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539098	
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS297-3'

E509230-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		121 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.4 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>						
		88.4 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539098
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS299-3'

E509230-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		120 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.8 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>						
		88.9 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539098
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS300-3'

E509230-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		121 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.9 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>						
		92.1 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539098
Chloride	ND	100	5	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS301-3'

E509230-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		120 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.6 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>						
		93.6 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539098
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS302-3'

E509230-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		121 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.4 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>						
		90.0 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2539098	
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS303-3'

E509230-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		119 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
<i>Surrogate: n-Nonane</i>		93.0 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539098	
Chloride	ND	100	5	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS304-3'

E509230-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		121 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
		89.7 %	61-141	09/24/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539098
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS305-3'

E509230-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		119 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2539027
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.7 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539085
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
		93.0 %	61-141	09/24/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539098
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS307-3'

E509230-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		121 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539085	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/26/25	
<i>Surrogate: n-Nonane</i>						
		93.8 %	61-141	09/24/25	09/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2539098	
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS308-3'

E509230-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		109 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		87.9 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		98.2 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		109 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		87.9 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		98.2 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		104 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS310-3'

E509230-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		108 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		90.0 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		96.2 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		108 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		90.0 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		96.2 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		96.9 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	219	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS311-3'

E509230-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		107 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		87.2 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		96.8 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		107 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		87.2 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		96.8 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		105 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	209	100	5	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS312-3'

E509230-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		106 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		88.8 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		96.2 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		106 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		88.8 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		96.2 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		100 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS313-3'

E509230-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		109 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		85.1 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		96.2 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		109 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		85.1 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		96.2 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		100 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS314-3'

E509230-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		105 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		88.2 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		97.5 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		105 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		88.2 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		97.5 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		96.0 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	206	40.0	2	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS315-3'

E509230-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/24/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/24/25	
Toluene	ND	0.0250	1	09/22/25	09/24/25	
o-Xylene	ND	0.0250	1	09/22/25	09/24/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/24/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		110 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		96.8 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/24/25	
Surrogate: Bromofluorobenzene		110 %	70-130	09/22/25	09/24/25	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	70-130	09/22/25	09/24/25	
Surrogate: Toluene-d8		96.8 %	70-130	09/22/25	09/24/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		99.7 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	ND	100	5	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS316-3'

E509230-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/25/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/25/25	
Toluene	ND	0.0250	1	09/22/25	09/25/25	
o-Xylene	ND	0.0250	1	09/22/25	09/25/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/25/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/25/25	
Surrogate: Bromofluorobenzene		105 %	70-130	09/22/25	09/25/25	
Surrogate: 1,2-Dichloroethane-d4		88.1 %	70-130	09/22/25	09/25/25	
Surrogate: Toluene-d8		95.1 %	70-130	09/22/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/25/25	
Surrogate: Bromofluorobenzene		105 %	70-130	09/22/25	09/25/25	
Surrogate: 1,2-Dichloroethane-d4		88.1 %	70-130	09/22/25	09/25/25	
Surrogate: Toluene-d8		95.1 %	70-130	09/22/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		97.6 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS317-3'

E509230-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/25/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/25/25	
Toluene	ND	0.0250	1	09/22/25	09/25/25	
o-Xylene	ND	0.0250	1	09/22/25	09/25/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/25/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/25/25	
Surrogate: Bromofluorobenzene		108 %	70-130	09/22/25	09/25/25	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	09/22/25	09/25/25	
Surrogate: Toluene-d8		97.1 %	70-130	09/22/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/25/25	
Surrogate: Bromofluorobenzene		108 %	70-130	09/22/25	09/25/25	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	09/22/25	09/25/25	
Surrogate: Toluene-d8		97.1 %	70-130	09/22/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		97.8 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	162	20.0	1	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS318-3'

E509230-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/25/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/25/25	
Toluene	ND	0.0250	1	09/22/25	09/25/25	
o-Xylene	ND	0.0250	1	09/22/25	09/25/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/25/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/25/25	
Surrogate: Bromofluorobenzene		104 %	70-130	09/22/25	09/25/25	
Surrogate: 1,2-Dichloroethane-d4		85.4 %	70-130	09/22/25	09/25/25	
Surrogate: Toluene-d8		95.3 %	70-130	09/22/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/25/25	
Surrogate: Bromofluorobenzene		104 %	70-130	09/22/25	09/25/25	
Surrogate: 1,2-Dichloroethane-d4		85.4 %	70-130	09/22/25	09/25/25	
Surrogate: Toluene-d8		95.3 %	70-130	09/22/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		100 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	ND	200	10	09/24/25	09/24/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS319-3'

E509230-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/25/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/25/25	
Toluene	ND	0.0250	1	09/22/25	09/25/25	
o-Xylene	ND	0.0250	1	09/22/25	09/25/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/25/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/25/25	
Surrogate: Bromofluorobenzene		108 %	70-130	09/22/25	09/25/25	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	09/22/25	09/25/25	
Surrogate: Toluene-d8		95.1 %	70-130	09/22/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/25/25	
Surrogate: Bromofluorobenzene		108 %	70-130	09/22/25	09/25/25	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	09/22/25	09/25/25	
Surrogate: Toluene-d8		95.1 %	70-130	09/22/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		96.0 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	244	20.0	1	09/24/25	09/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS320-3'

E509230-32

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/25/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/25/25	
Toluene	ND	0.0250	1	09/22/25	09/25/25	
o-Xylene	ND	0.0250	1	09/22/25	09/25/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/25/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/25/25	
Surrogate: Bromofluorobenzene		104 %	70-130	09/22/25	09/25/25	
Surrogate: 1,2-Dichloroethane-d4		86.9 %	70-130	09/22/25	09/25/25	
Surrogate: Toluene-d8		95.7 %	70-130	09/22/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/25/25	
Surrogate: Bromofluorobenzene		104 %	70-130	09/22/25	09/25/25	
Surrogate: 1,2-Dichloroethane-d4		86.9 %	70-130	09/22/25	09/25/25	
Surrogate: Toluene-d8		95.7 %	70-130	09/22/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		96.5 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	149	100	5	09/24/25	09/25/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/26/2025 2:25:07PM

FS321-3'

E509230-33

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Benzene	ND	0.0250	1	09/22/25	09/25/25	
Ethylbenzene	ND	0.0250	1	09/22/25	09/25/25	
Toluene	ND	0.0250	1	09/22/25	09/25/25	
o-Xylene	ND	0.0250	1	09/22/25	09/25/25	
p,m-Xylene	ND	0.0500	1	09/22/25	09/25/25	
Total Xylenes	ND	0.0250	1	09/22/25	09/25/25	
Surrogate: Bromofluorobenzene		105 %	70-130	09/22/25	09/25/25	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	70-130	09/22/25	09/25/25	
Surrogate: Toluene-d8		94.9 %	70-130	09/22/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539028
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/22/25	09/25/25	
Surrogate: Bromofluorobenzene		105 %	70-130	09/22/25	09/25/25	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	70-130	09/22/25	09/25/25	
Surrogate: Toluene-d8		94.9 %	70-130	09/22/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2539086
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/25	09/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/25	09/25/25	
Surrogate: n-Nonane		94.9 %	61-141	09/24/25	09/25/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2539097
Chloride	ND	200	10	09/24/25	09/25/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2025 2:25:07PM

Volatile Organic Compounds by EPA 8260B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539028-BLK1)

Prepared: 09/22/25 Analyzed: 09/24/25

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: Bromofluorobenzene	0.551		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.426		0.500		85.1	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

LCS (2539028-BS1)

Prepared: 09/22/25 Analyzed: 09/24/25

Benzene	2.03	0.0250	2.50		81.3	70-130			
Ethylbenzene	2.20	0.0250	2.50		88.0	70-130			
Toluene	2.07	0.0250	2.50		83.0	70-130			
o-Xylene	2.27	0.0250	2.50		90.7	70-130			
p,m-Xylene	4.63	0.0500	5.00		92.6	70-130			
Total Xylenes	6.90	0.0250	7.50		92.0	70-130			
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.452		0.500		90.3	70-130			
Surrogate: Toluene-d8	0.486		0.500		97.1	70-130			

Matrix Spike (2539028-MS1)

Source: E509230-24

Prepared: 09/22/25 Analyzed: 09/24/25

Benzene	2.35	0.0250	2.50	ND	94.0	48-131			
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135			
Toluene	2.40	0.0250	2.50	ND	96.1	48-130			
o-Xylene	2.62	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.40	0.0500	5.00	ND	108	43-135			
Total Xylenes	8.01	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.437		0.500		87.4	70-130			
Surrogate: Toluene-d8	0.482		0.500		96.4	70-130			

Matrix Spike Dup (2539028-MSD1)

Source: E509230-24

Prepared: 09/22/25 Analyzed: 09/24/25

Benzene	2.11	0.0250	2.50	ND	84.4	48-131	10.8	23	
Ethylbenzene	2.29	0.0250	2.50	ND	91.6	45-135	10.9	27	
Toluene	2.14	0.0250	2.50	ND	85.8	48-130	11.3	24	
o-Xylene	2.35	0.0250	2.50	ND	94.0	43-135	10.7	27	
p,m-Xylene	4.81	0.0500	5.00	ND	96.2	43-135	11.4	27	
Total Xylenes	7.16	0.0250	7.50	ND	95.5	43-135	11.2	27	
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.450		0.500		89.9	70-130			
Surrogate: Toluene-d8	0.482		0.500		96.4	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/26/2025 2:25:07PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539027-BLK1)

Prepared: 09/22/25 Analyzed: 09/24/25

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	9.46		8.00		118	70-130			

LCS (2539027-BS1)

Prepared: 09/22/25 Analyzed: 09/24/25

Benzene	4.68	0.0250	5.00		93.6	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.2	70-130			
Toluene	4.76	0.0250	5.00		95.2	70-130			
o-Xylene	4.92	0.0250	5.00		98.5	70-130			
p,m-Xylene	9.86	0.0500	10.0		98.6	70-130			
Total Xylenes	14.8	0.0250	15.0		98.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.46		8.00		118	70-130			

Matrix Spike (2539027-MS1)

Source: E509230-10

Prepared: 09/22/25 Analyzed: 09/24/25

Benzene	4.62	0.0250	5.00	ND	92.5	70-130			
Ethylbenzene	4.81	0.0250	5.00	ND	96.2	70-130			
Toluene	4.71	0.0250	5.00	ND	94.3	70-130			
o-Xylene	4.88	0.0250	5.00	ND	97.6	70-130			
p,m-Xylene	9.76	0.0500	10.0	ND	97.6	70-130			
Total Xylenes	14.6	0.0250	15.0	ND	97.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.49		8.00		119	70-130			

Matrix Spike Dup (2539027-MSD1)

Source: E509230-10

Prepared: 09/22/25 Analyzed: 09/24/25

Benzene	4.53	0.0250	5.00	ND	90.6	70-130	2.00	27	
Ethylbenzene	4.73	0.0250	5.00	ND	94.6	70-130	1.70	26	
Toluene	4.62	0.0250	5.00	ND	92.5	70-130	1.96	20	
o-Xylene	4.80	0.0250	5.00	ND	96.0	70-130	1.60	25	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	70-130	1.60	23	
Total Xylenes	14.4	0.0250	15.0	ND	96.1	70-130	1.60	26	
Surrogate: 4-Bromochlorobenzene-PID	9.54		8.00		119	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2025 2:25:07PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539027-BLK1) Prepared: 09/22/25 Analyzed: 09/24/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

LCS (2539027-BS2) Prepared: 09/22/25 Analyzed: 09/24/25

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

Matrix Spike (2539027-MS2) Source: E509230-10 Prepared: 09/22/25 Analyzed: 09/24/25

Gasoline Range Organics (C6-C10)	54.6	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			

Matrix Spike Dup (2539027-MSD2) Source: E509230-10 Prepared: 09/22/25 Analyzed: 09/24/25

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130	3.95	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2025 2:25:07PM

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
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Blank (2539028-BLK1)

Prepared: 09/22/25 Analyzed: 09/24/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.551		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.426		0.500		85.1	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

LCS (2539028-BS2)

Prepared: 09/22/25 Analyzed: 09/24/25

Gasoline Range Organics (C6-C10)	59.6	20.0	50.0		119	70-130			
Surrogate: Bromofluorobenzene	0.558		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.441		0.500		88.2	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

Matrix Spike (2539028-MS2)

Source: E509230-24

Prepared: 09/22/25 Analyzed: 09/24/25

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.444		0.500		88.8	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike Dup (2539028-MSD2)

Source: E509230-24

Prepared: 09/22/25 Analyzed: 09/24/25

Gasoline Range Organics (C6-C10)	54.1	20.0	50.0	ND	108	70-130	4.14	20	
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.446		0.500		89.2	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2025 2:25:07PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539085-BLK1)					Prepared: 09/24/25 Analyzed: 09/25/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.6		50.0		85.2	61-141			

LCS (2539085-BS1)					Prepared: 09/24/25 Analyzed: 09/25/25				
Diesel Range Organics (C10-C28)	260	25.0	250		104	66-144			
Surrogate: n-Nonane	46.1		50.0		92.2	61-141			

Matrix Spike (2539085-MS1)					Source: E509230-05		Prepared: 09/24/25 Analyzed: 09/25/25		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156			
Surrogate: n-Nonane	46.6		50.0		93.2	61-141			

Matrix Spike Dup (2539085-MSD1)					Source: E509230-05		Prepared: 09/24/25 Analyzed: 09/25/25		
Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	56-156	9.33	20	
Surrogate: n-Nonane	50.7		50.0		101	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/26/2025 2:25:07PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539086-BLK1)					Prepared: 09/24/25 Analyzed: 09/25/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.5		50.0		93.1	61-141			

LCS (2539086-BS1)					Prepared: 09/24/25 Analyzed: 09/25/25				
Diesel Range Organics (C10-C28)	257	25.0	250		103	66-144			
Surrogate: n-Nonane	47.4		50.0		94.7	61-141			

Matrix Spike (2539086-MS1)					Source: E509230-26		Prepared: 09/24/25 Analyzed: 09/25/25		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	56-156			
Surrogate: n-Nonane	48.1		50.0		96.1	61-141			

Matrix Spike Dup (2539086-MSD1)					Source: E509230-26		Prepared: 09/24/25 Analyzed: 09/25/25		
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	56-156	5.19	20	
Surrogate: n-Nonane	49.2		50.0		98.4	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/26/2025 2:25:07PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539097-BLK1)					Prepared: 09/24/25 Analyzed: 09/24/25				
Chloride	ND	20.0							
LCS (2539097-BS1)					Prepared: 09/24/25 Analyzed: 09/24/25				
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2539097-MS1)					Source: E509229-51		Prepared: 09/24/25 Analyzed: 09/24/25		
Chloride	275	20.0	250	ND	110	80-120			
Matrix Spike Dup (2539097-MSD1)					Source: E509229-51		Prepared: 09/24/25 Analyzed: 09/24/25		
Chloride	275	20.0	250	ND	110	80-120	0.115	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/26/2025 2:25:07PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539098-BLK1)					Prepared: 09/24/25 Analyzed: 09/24/25				
Chloride	ND	20.0							
LCS (2539098-BS1)					Prepared: 09/24/25 Analyzed: 09/24/25				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2539098-MS1)					Source: E509230-07		Prepared: 09/24/25 Analyzed: 09/24/25		
Chloride	327	200	250	ND	131	80-120			M6
Matrix Spike Dup (2539098-MSD1)					Source: E509230-07		Prepared: 09/24/25 Analyzed: 09/24/25		
Chloride	332	200	250	ND	133	80-120	1.65	20	M6

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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/26/25 14:25

- M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
- 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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E 509230	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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
1120	09/18/2025	S	1	FS261-3'		1							X		3.6			
1122	09/18/2025	S	1	FS270-3'		2							X		3.7			
1040	09/18/2025	S	1	FS271-3'		3							X		3.3			
1035	09/18/2025	S	1	FS280-3'		4							X		3.2			
1126	09/18/2025	S	1	FS281-3'		5							X		3.1			
1035	09/18/2025	S	1	FS282-3'		6							X		3.5			
1320	09/18/2025	S	1	FS289-3'		7							X		3.3			
1419	09/18/2025	S	1	FS290-3'		8							X		3.4			
1347	09/18/2025	S	1	FS291-3'		9							X		3.2			
1150	09/18/2025	S	1	FS293-3'		10							X		3.2			
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: Higinio Gonzalez, Eric Plugge																		
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											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: ☒ Y ☐ N										
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				Company: Ensolum LLC		Lab WO# E509230		Job Number 23003-0002		1D	2D	3D	Std	NM	CO	UT	TX	
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy										X				
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information				Analysis and Method										EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1151	09/18/2025	S	1	FS294-3'		11							X					
1318	09/18/2025	S	1	FS297-3'		12							X					
1310	09/18/2025	S	1	FS299-3'		13							X					
1317	09/18/2025	S	1	FS300-3'		14							X					
1340	09/18/2025	S	1	FS301-3'		15							X					
1313	09/18/2025	S	1	FS302-3'		16							X					
1312	09/18/2025	S	1	FS303-3'		17							X					
1320	09/18/2025	S	1	FS304-3'		18							X					
1417	09/18/2025	S	1	FS305-3'		19							X					
1348	09/18/2025	S	1	FS307-3'		20							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: Higinio Gonzalez, Eric Plugge																		
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: ☒ Y ☐ 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.																		

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E 509230	28003-0002				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	TCED 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1350	09/18/2025	S	1	FS308-3'		21							X					
1447	09/18/2025	S	1	FS310-3'		22							X					
1450	09/18/2025	S	1	FS311-3'		23							X					
1449	09/18/2025	S	1	FS312-3'		24							X					
1520	09/18/2025	S	1	FS313-3'		25							X					
1522	09/18/2025	S	1	FS314-3'		26							X					
1527	09/18/2025	S	1	FS315-3'		27							X					
1352	09/18/2025	S	1	FS316-3'		28							X					
1345	09/18/2025	S	1	FS317-3'		29							X					
1524	09/18/2025	S	1	FS318-3'		30							X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, lestrella@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: Higinio Gonzalez, Eric Plugge																		
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											
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: ☒ 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.																		

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E509230	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	TEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1529	09/18/2025	S	1	FS319-3'		31							X					
1540	09/18/2025	S	1	FS320-3'		32							X					
1535	09/18/2025	S	1	FS321-3'		33							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: Higinio Gonzalez, Eric Plugge																		
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										
		09-19-25	1430	Michelle Gonzales		9-19-25	1430											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
		9-19-25	1500	Marissa Gonzales		9-19-25	1500											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
		9-19-25	1900	Andrew Musso		9-19-25	1900											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
		9-19-25	2345	Na. Sato		9-22-25	0600											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		

Envirotech Analytical Laboratory

Printed: 9/22/2025 12:53:51PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/22/25 06:00	Work Order ID:	E509230
Phone:	(972) 371-5200	Date Logged In:	09/19/25 16:58	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	09/26/25 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.

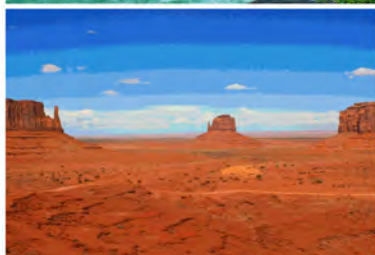
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E509265

Job Number: 23003-0002

Received: 9/24/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/1/25

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: 10/1/25

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



Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E509265
Date Received: 9/24/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/24/2025 8:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported: 10/01/25 11:38
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01- 0-3'	E509265-01A	Soil	09/22/25	09/24/25	Glass Jar, 2 oz.
SW03- 0-3'	E509265-02A	Soil	09/22/25	09/24/25	Glass Jar, 2 oz.
SW04- 0-3'	E509265-03A	Soil	09/22/25	09/24/25	Glass Jar, 2 oz.
FS395-1'	E509265-04A	Soil	09/22/25	09/24/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2025 11:38:31AM

SW01- 0-3'

E509265-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539092	
Benzene	ND	0.0250	1	09/24/25	09/30/25	
Ethylbenzene	ND	0.0250	1	09/24/25	09/30/25	
Toluene	ND	0.0250	1	09/24/25	09/30/25	
o-Xylene	ND	0.0250	1	09/24/25	09/30/25	
p,m-Xylene	ND	0.0500	1	09/24/25	09/30/25	
Total Xylenes	ND	0.0250	1	09/24/25	09/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		118 %	70-130	09/24/25	09/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/25	09/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	70-130	09/24/25	09/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539146	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/25	09/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/25	09/27/25	
<i>Surrogate: n-Nonane</i>		88.6 %	61-141	09/26/25	09/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539158	
Chloride	ND	200	10	09/26/25	09/26/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2025 11:38:31AM

SW03- 0-3'

E509265-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539092	
Benzene	ND	0.0250	1	09/24/25	09/30/25	
Ethylbenzene	ND	0.0250	1	09/24/25	09/30/25	
Toluene	ND	0.0250	1	09/24/25	09/30/25	
o-Xylene	ND	0.0250	1	09/24/25	09/30/25	
p,m-Xylene	ND	0.0500	1	09/24/25	09/30/25	
Total Xylenes	ND	0.0250	1	09/24/25	09/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	09/24/25	09/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/25	09/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.9 %	70-130	09/24/25	09/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539146	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/25	09/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/25	09/27/25	
<i>Surrogate: n-Nonane</i>		88.3 %	61-141	09/26/25	09/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539158	
Chloride	ND	200	10	09/26/25	09/30/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2025 11:38:31AM

SW04- 0-3'

E509265-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539092	
Benzene	ND	0.0250	1	09/24/25	09/30/25	
Ethylbenzene	ND	0.0250	1	09/24/25	09/30/25	
Toluene	ND	0.0250	1	09/24/25	09/30/25	
o-Xylene	ND	0.0250	1	09/24/25	09/30/25	
p,m-Xylene	ND	0.0500	1	09/24/25	09/30/25	
Total Xylenes	ND	0.0250	1	09/24/25	09/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.1 %	70-130		09/24/25	09/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/25	09/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.2 %	70-130		09/24/25	09/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2539146	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/25	09/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/25	09/27/25	
<i>Surrogate: n-Nonane</i>	91.1 %	61-141		09/26/25	09/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539158	
Chloride	249	20.0	1	09/26/25	09/26/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2025 11:38:31AM

FS395-1'

E509265-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539092	
Benzene	ND	0.0250	1	09/24/25	09/30/25	
Ethylbenzene	ND	0.0250	1	09/24/25	09/30/25	
Toluene	ND	0.0250	1	09/24/25	09/30/25	
o-Xylene	ND	0.0250	1	09/24/25	09/30/25	
p,m-Xylene	ND	0.0500	1	09/24/25	09/30/25	
Total Xylenes	ND	0.0250	1	09/24/25	09/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		115 %	70-130	09/24/25	09/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/25	09/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.6 %	70-130	09/24/25	09/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2539146	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/26/25	09/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/26/25	09/27/25	
<i>Surrogate: n-Nonane</i>						
		94.7 %	61-141	09/26/25	09/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2539158	
Chloride	169	40.0	2	09/26/25	09/26/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2025 11:38:31AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539092-BLK1)

Prepared: 09/24/25 Analyzed: 09/30/25

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	7.78		8.00		97.3	70-130			

LCS (2539092-BS1)

Prepared: 09/24/25 Analyzed: 09/30/25

Benzene	5.50	0.0250	5.00		110	70-130			
Ethylbenzene	5.49	0.0250	5.00		110	70-130			
Toluene	5.49	0.0250	5.00		110	70-130			
o-Xylene	5.43	0.0250	5.00		109	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.5	0.0250	15.0		110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.7	70-130			

Matrix Spike (2539092-MS1)

Source: E509265-03

Prepared: 09/24/25 Analyzed: 09/30/25

Benzene	5.49	0.0250	5.00	ND	110	70-130			
Ethylbenzene	5.46	0.0250	5.00	ND	109	70-130			
Toluene	5.47	0.0250	5.00	ND	109	70-130			
o-Xylene	5.42	0.0250	5.00	ND	108	70-130			
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130			
Total Xylenes	16.4	0.0250	15.0	ND	110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.4	70-130			

Matrix Spike Dup (2539092-MSD1)

Source: E509265-03

Prepared: 09/24/25 Analyzed: 09/30/25

Benzene	5.54	0.0250	5.00	ND	111	70-130	0.982	27	
Ethylbenzene	5.53	0.0250	5.00	ND	111	70-130	1.20	26	
Toluene	5.52	0.0250	5.00	ND	110	70-130	0.971	20	
o-Xylene	5.48	0.0250	5.00	ND	110	70-130	1.12	25	
p,m-Xylene	11.2	0.0500	10.0	ND	112	70-130	1.40	23	
Total Xylenes	16.7	0.0250	15.0	ND	111	70-130	1.31	26	
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2025 11:38:31AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539092-BLK1) Prepared: 09/24/25 Analyzed: 09/30/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		8.00		87.3	70-130			

LCS (2539092-BS2) Prepared: 09/24/25 Analyzed: 09/30/25

Gasoline Range Organics (C6-C10)	57.4	20.0	50.0		115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	70-130			

Matrix Spike (2539092-MS2) Source: E509265-03 Prepared: 09/24/25 Analyzed: 09/30/25

Gasoline Range Organics (C6-C10)	57.8	20.0	50.0	ND	116	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.3	70-130			

Matrix Spike Dup (2539092-MSD2) Source: E509265-03 Prepared: 09/24/25 Analyzed: 09/30/25

Gasoline Range Organics (C6-C10)	56.7	20.0	50.0	ND	113	70-130	1.92	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2025 11:38:31AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539146-BLK1)					Prepared: 09/26/25 Analyzed: 09/26/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.1		50.0		92.2	61-141			

LCS (2539146-BS1)					Prepared: 09/26/25 Analyzed: 09/26/25				
Diesel Range Organics (C10-C28)	246	25.0	250		98.4	66-144			
Surrogate: n-Nonane	45.3		50.0		90.6	61-141			

Matrix Spike (2539146-MS1)					Source: E509266-04		Prepared: 09/26/25 Analyzed: 09/26/25		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	103	56-156			
Surrogate: n-Nonane	47.7		50.0		95.4	61-141			

Matrix Spike Dup (2539146-MSD1)					Source: E509266-04		Prepared: 09/26/25 Analyzed: 09/26/25		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156	1.47	20	
Surrogate: n-Nonane	46.9		50.0		93.9	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2025 11:38:31AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539158-BLK1)					Prepared: 09/26/25 Analyzed: 09/26/25				
Chloride	ND	20.0							
LCS (2539158-BS1)					Prepared: 09/26/25 Analyzed: 09/26/25				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2539158-MS1)					Source: E509265-02		Prepared: 09/26/25 Analyzed: 09/30/25		
Chloride	368	200	250	ND	147	80-120			M6
Matrix Spike Dup (2539158-MSD1)					Source: E509265-02		Prepared: 09/26/25 Analyzed: 09/30/25		
Chloride	353	200	250	ND	141	80-120	4.30	20	M6

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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/01/25 11:38

- M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Envirotech Analytical Laboratory

Printed: 9/24/2025 10:44:40AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/24/25 08:00	Work Order ID:	E509265
Phone:	(972) 371-5200	Date Logged In:	09/23/25 16:22	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	09/30/25 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

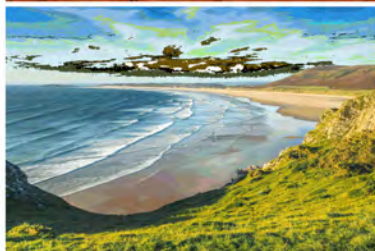
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E509280

Job Number: 23003-0002

Received: 9/25/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/1/25

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: 10/1/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E509280
Date Received: 9/25/2025 6:00:56AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/25/2025 6:00:56AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
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Sample Summary

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported: 10/01/25 08:59
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS240-3'	E509280-01A	Soil	09/23/25	09/25/25	Glass Jar, 2 oz.
FS241-3'	E509280-02A	Soil	09/23/25	09/25/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2025 8:59:33AM

FS240-3'

E509280-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2539128	
Benzene	ND	0.0250	1	09/25/25	09/25/25	
Ethylbenzene	ND	0.0250	1	09/25/25	09/25/25	
Toluene	ND	0.0250	1	09/25/25	09/25/25	
o-Xylene	ND	0.0250	1	09/25/25	09/25/25	
p,m-Xylene	ND	0.0500	1	09/25/25	09/25/25	
Total Xylenes	ND	0.0250	1	09/25/25	09/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	09/25/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2539128	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/25	09/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.8 %	70-130	09/25/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2540002	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/29/25	09/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/29/25	09/29/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	09/29/25	09/29/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539166	
Chloride	ND	40.0	2	09/26/25	09/27/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/1/2025 8:59:33AM

FS241-3'

E509280-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539128	
Benzene	ND	0.0250	1	09/25/25	09/25/25	
Ethylbenzene	ND	0.0250	1	09/25/25	09/25/25	
Toluene	ND	0.0250	1	09/25/25	09/25/25	
o-Xylene	ND	0.0250	1	09/25/25	09/25/25	
p,m-Xylene	ND	0.0500	1	09/25/25	09/25/25	
Total Xylenes	ND	0.0250	1	09/25/25	09/25/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	09/25/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2539128	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/25	09/25/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.2 %	70-130	09/25/25	09/25/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540002	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/29/25	09/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/29/25	09/29/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	09/29/25	09/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2539166	
Chloride	212	20.0	1	09/26/25	09/27/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2025 8:59:33AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539128-BLK1)

Prepared: 09/25/25 Analyzed: 09/25/25

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	8.75		8.00		109	70-130			

LCS (2539128-BS1)

Prepared: 09/25/25 Analyzed: 09/25/25

Benzene	4.34	0.0250	5.00		86.8	70-130			
Ethylbenzene	4.36	0.0250	5.00		87.3	70-130			
Toluene	4.33	0.0250	5.00		86.7	70-130			
o-Xylene	4.47	0.0250	5.00		89.4	70-130			
p,m-Xylene	8.89	0.0500	10.0		88.9	70-130			
Total Xylenes	13.4	0.0250	15.0		89.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.99		8.00		112	70-130			

Matrix Spike (2539128-MS1)

Source: E509275-04

Prepared: 09/25/25 Analyzed: 09/25/25

Benzene	4.54	0.0250	5.00	ND	90.7	70-130			
Ethylbenzene	4.56	0.0250	5.00	ND	91.1	70-130			
Toluene	4.52	0.0250	5.00	ND	90.4	70-130			
o-Xylene	4.63	0.0250	5.00	ND	92.6	70-130			
p,m-Xylene	9.25	0.0500	10.0	ND	92.5	70-130			
Total Xylenes	13.9	0.0250	15.0	ND	92.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.84		8.00		110	70-130			

Matrix Spike Dup (2539128-MSD1)

Source: E509275-04

Prepared: 09/25/25 Analyzed: 09/25/25

Benzene	4.20	0.0250	5.00	ND	84.1	70-130	7.61	27	
Ethylbenzene	4.25	0.0250	5.00	ND	85.0	70-130	6.95	26	
Toluene	4.20	0.0250	5.00	ND	84.0	70-130	7.32	20	
o-Xylene	4.32	0.0250	5.00	ND	86.4	70-130	7.00	25	
p,m-Xylene	8.64	0.0500	10.0	ND	86.4	70-130	6.85	23	
Total Xylenes	13.0	0.0250	15.0	ND	86.4	70-130	6.90	26	
Surrogate: 4-Bromochlorobenzene-PID	8.94		8.00		112	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2025 8:59:33AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539128-BLK1) Prepared: 09/25/25 Analyzed: 09/25/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		8.00		88.5	70-130			

LCS (2539128-BS2) Prepared: 09/25/25 Analyzed: 09/25/25

Gasoline Range Organics (C6-C10)	50.5	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			

Matrix Spike (2539128-MS2) Source: E509275-04 Prepared: 09/25/25 Analyzed: 09/25/25

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0	ND	93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.2	70-130			

Matrix Spike Dup (2539128-MSD2) Source: E509275-04 Prepared: 09/25/25 Analyzed: 09/25/25

Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.4	70-130	10.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2025 8:59:33AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540002-BLK1)					Prepared: 09/29/25 Analyzed: 09/29/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.5		50.0		93.1	61-141			

LCS (2540002-BS1)					Prepared: 09/29/25 Analyzed: 09/29/25				
Diesel Range Organics (C10-C28)	262	25.0	250		105	66-144			
Surrogate: n-Nonane	47.4		50.0		94.8	61-141			

Matrix Spike (2540002-MS1)					Source: E509281-01		Prepared: 09/29/25 Analyzed: 09/29/25		
Diesel Range Organics (C10-C28)	301	25.0	250	ND	120	56-156			
Surrogate: n-Nonane	52.4		50.0		105	61-141			

Matrix Spike Dup (2540002-MSD1)					Source: E509281-01		Prepared: 09/29/25 Analyzed: 09/29/25		
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	56-156	5.38	20	
Surrogate: n-Nonane	49.6		50.0		99.2	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/1/2025 8:59:33AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539166-BLK1)					Prepared: 09/26/25 Analyzed: 09/27/25				
Chloride	ND	20.0							
LCS (2539166-BS1)					Prepared: 09/26/25 Analyzed: 09/27/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2539166-MS1)					Source: E509281-02		Prepared: 09/26/25 Analyzed: 09/27/25		
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2539166-MSD1)					Source: E509281-02		Prepared: 09/26/25 Analyzed: 09/27/25		
Chloride	253	20.0	250	ND	101	80-120	0.118	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/01/25 08:59

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E509280	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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
1160	09-23-25	S	1	FS240 - 3'		1							X		1.1			
1160	09-23-25	S	1	FS241 - 3'		2							X		1.5			
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										X					
		S	1										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: Higinio Gonzalez, Eric Plugge																		
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										
Michelle Gonzalez		09-24-25	0711	Michelle Gonzalez		9-24-25	0711											
Michelle Gonzalez		9-24-25	1400	Marissa Gonzalez		9-24-25	1400											
Marissa Gonzalez		9-24-25	1920	Andrew Musso		9-24-25	1920											
Andrew Musso		9-24-25	2400	Noe Soto		9-25-25	0600											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		

Envirotech Analytical Laboratory

Printed: 9/25/2025 9:09:53AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/25/25 06:00	Work Order ID:	E509280
Phone:	(972) 371-5200	Date Logged In:	09/24/25 15:08	Logged In By:	Joslyn Meidinger
Email:	agiovento@ensolum.com	Due Date:	10/01/25 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: Dr. Ireland State 16 139 Well Pad

Work Order: E509290

Job Number: 23003-0002

Received: 9/26/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/2/25

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: 10/2/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E509290
Date Received: 9/26/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/26/2025 7:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported: 10/02/25 08:55
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS229-3'	E509290-01A	Soil	09/24/25	09/26/25	Glass Jar, 2 oz.
FS230-3'	E509290-02A	Soil	09/24/25	09/26/25	Glass Jar, 2 oz.
FS365-3'	E509290-03A	Soil	09/24/25	09/26/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/2/2025 8:55:19AM

FS229-3'

E509290-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2539153	
Benzene	ND	0.0250	1	09/26/25	09/27/25	
Ethylbenzene	ND	0.0250	1	09/26/25	09/27/25	
Toluene	ND	0.0250	1	09/26/25	09/27/25	
o-Xylene	ND	0.0250	1	09/26/25	09/27/25	
p,m-Xylene	ND	0.0500	1	09/26/25	09/27/25	
Total Xylenes	ND	0.0250	1	09/26/25	09/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.5 %	70-130		09/26/25	09/27/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2539153	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/25	09/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.6 %	70-130		09/26/25	09/27/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2540002	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/29/25	09/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/29/25	09/30/25	
<i>Surrogate: n-Nonane</i>	102 %	61-141		09/29/25	09/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2539149	
Chloride	294	100	5	09/26/25	09/26/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/2/2025 8:55:19AM

FS230-3'

E509290-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539153
Benzene	ND	0.0250	1	09/26/25	09/27/25	
Ethylbenzene	ND	0.0250	1	09/26/25	09/27/25	
Toluene	ND	0.0250	1	09/26/25	09/27/25	
o-Xylene	ND	0.0250	1	09/26/25	09/27/25	
p,m-Xylene	ND	0.0500	1	09/26/25	09/27/25	
Total Xylenes	ND	0.0250	1	09/26/25	09/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		09/26/25	09/27/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539153
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/25	09/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		09/26/25	09/27/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2540002
Diesel Range Organics (C10-C28)	75.5	25.0	1	09/29/25	09/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/29/25	09/30/25	
<i>Surrogate: n-Nonane</i>						
	102 %	61-141		09/29/25	09/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539149
Chloride	889	100	5	09/26/25	09/26/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/2/2025 8:55:19AM

FS365-3'

E509290-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539153
Benzene	ND	0.0250	1	09/26/25	09/27/25	
Ethylbenzene	ND	0.0250	1	09/26/25	09/27/25	
Toluene	ND	0.0250	1	09/26/25	09/27/25	
o-Xylene	ND	0.0250	1	09/26/25	09/27/25	
p,m-Xylene	ND	0.0500	1	09/26/25	09/27/25	
Total Xylenes	ND	0.0250	1	09/26/25	09/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		09/26/25	09/27/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2539153
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/25	09/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		09/26/25	09/27/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2540002
Diesel Range Organics (C10-C28)	ND	25.0	1	09/29/25	09/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/29/25	09/30/25	
<i>Surrogate: n-Nonane</i>						
	97.4 %	61-141		09/29/25	09/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2539149
Chloride	245	100	5	09/26/25	09/26/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/2/2025 8:55:19AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539153-BLK1)

Prepared: 09/26/25 Analyzed: 09/26/25

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	7.87		8.00		98.3	70-130			

LCS (2539153-BS1)

Prepared: 09/26/25 Analyzed: 09/26/25

Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	5.11	0.0250	5.00		102	70-130			
Toluene	5.15	0.0250	5.00		103	70-130			
o-Xylene	5.13	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			

Matrix Spike (2539153-MS1)

Source: E509287-01

Prepared: 09/26/25 Analyzed: 09/26/25

Benzene	4.75	0.0250	5.00	ND	95.0	70-130			
Ethylbenzene	4.66	0.0250	5.00	ND	93.2	70-130			
Toluene	4.72	0.0250	5.00	ND	94.5	70-130			
o-Xylene	4.76	0.0250	5.00	ND	95.2	70-130			
p,m-Xylene	9.52	0.0500	10.0	ND	95.2	70-130			
Total Xylenes	14.3	0.0250	15.0	ND	95.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			

Matrix Spike Dup (2539153-MSD1)

Source: E509287-01

Prepared: 09/26/25 Analyzed: 09/26/25

Benzene	5.31	0.0250	5.00	ND	106	70-130	11.1	27	
Ethylbenzene	5.25	0.0250	5.00	ND	105	70-130	11.9	26	
Toluene	5.29	0.0250	5.00	ND	106	70-130	11.4	20	
o-Xylene	5.25	0.0250	5.00	ND	105	70-130	9.80	25	
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	11.2	23	
Total Xylenes	15.9	0.0250	15.0	ND	106	70-130	10.7	26	
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/2/2025 8:55:19AM

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
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Blank (2539153-BLK1)

Prepared: 09/26/25 Analyzed: 09/26/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			

LCS (2539153-BS2)

Prepared: 09/26/25 Analyzed: 09/26/25

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0		96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2539153-MS2)

Source: E509287-01

Prepared: 09/26/25 Analyzed: 09/26/25

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			

Matrix Spike Dup (2539153-MSD2)

Source: E509287-01

Prepared: 09/26/25 Analyzed: 09/26/25

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130	5.96	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/2/2025 8:55:19AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540002-BLK1)					Prepared: 09/29/25 Analyzed: 09/29/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.5		50.0		93.1	61-141			

LCS (2540002-BS1)					Prepared: 09/29/25 Analyzed: 09/29/25				
Diesel Range Organics (C10-C28)	262	25.0	250		105	66-144			
Surrogate: n-Nonane	47.4		50.0		94.8	61-141			

Matrix Spike (2540002-MS1)					Source: E509281-01		Prepared: 09/29/25 Analyzed: 09/29/25		
Diesel Range Organics (C10-C28)	301	25.0	250	ND	120	56-156			
Surrogate: n-Nonane	52.4		50.0		105	61-141			

Matrix Spike Dup (2540002-MSD1)					Source: E509281-01		Prepared: 09/29/25 Analyzed: 09/29/25		
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	56-156	5.38	20	
Surrogate: n-Nonane	49.6		50.0		99.2	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/2/2025 8:55:19AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2539149-BLK1)					Prepared: 09/26/25 Analyzed: 09/26/25				
Chloride	ND	20.0							
LCS (2539149-BS1)					Prepared: 09/26/25 Analyzed: 09/26/25				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2539149-MS1)					Source: E509287-01		Prepared: 09/26/25 Analyzed: 09/26/25		
Chloride	332	20.0	250	68.9	105	80-120			
Matrix Spike Dup (2539149-MSD1)					Source: E509287-01		Prepared: 09/26/25 Analyzed: 09/26/25		
Chloride	335	20.0	250	68.9	106	80-120	0.886	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/02/25 08:55

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

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

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



Envirotech Analytical Laboratory

Printed: 9/26/2025 8:24:44AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/26/25 07:00	Work Order ID:	E509290
Phone:	(972) 371-5200	Date Logged In:	09/25/25 14:10	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	10/02/25 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: Dr. Ireland State 16 139 Well Pad

Work Order: E509341

Job Number: 23003-0002

Received: 10/1/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/7/25

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: 10/7/25

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



Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E509341
Date Received: 10/1/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/1/2025 7:30:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/07/25 12:07
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS91-5'	E509341-01A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.
FS102-9'	E509341-02A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.
FS103-9'	E509341-03A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.
FS104-9'	E509341-04A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.
FS105-9'	E509341-05A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.
FS106-9'	E509341-06A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.
FS107-9'	E509341-07A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.
FS108-9'	E509341-08A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.
FS109-9'	E509341-09A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.
FS110-9'	E509341-10A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.
FS111-9'	E509341-11A	Soil	09/26/25	10/01/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 12:07:12PM

FS91-5'

E509341-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		118 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.4 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540070	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>		97.0 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540082	
Chloride	427	200	10	10/01/25	10/01/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 12:07:12PM

FS102-9'

E509341-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540067
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		119 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.3 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540070
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540082
Chloride	444	200	10	10/01/25	10/01/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 12:07:12PM

FS103-9'

E509341-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540067
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		120 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.1 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540070
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		97.7 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540082
Chloride	ND	200	10	10/01/25	10/01/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 12:07:12PM

FS104-9'

E509341-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		119 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.7 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540070	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>		97.0 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540082	
Chloride	282	200	10	10/01/25	10/01/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 12:07:12PM

FS105-9'

E509341-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		118 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.9 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540070	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		99.7 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540082	
Chloride	ND	200	10	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 12:07:12PM

FS106-9'

E509341-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540067
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		118 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540067
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.3 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540070
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540082
Chloride	413	200	10	10/01/25	10/01/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 12:07:12PM

FS107-9'

E509341-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		120 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.9 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540070	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		96.7 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540082	
Chloride	274	200	10	10/01/25	10/01/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 12:07:12PM

FS108-9'

E509341-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		119 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.4 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540070	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		96.7 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540082	
Chloride	222	200	10	10/01/25	10/01/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 12:07:12PM

FS109-9'

E509341-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		118 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540070	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		96.6 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540082	
Chloride	297	200	10	10/01/25	10/01/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 12:07:12PM

FS110-9'

E509341-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		117 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.0 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540070	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>		99.0 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540082	
Chloride	222	20.0	1	10/01/25	10/01/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 12:07:12PM
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FS111-9'

E509341-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
Surrogate: 4-Bromochlorobenzene-PID	118 %	70-130		10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.5 %	70-130		10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540070	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
Surrogate: n-Nonane	98.2 %	61-141		10/01/25	10/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540082	
Chloride	242	20.0	1	10/01/25	10/01/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 12:07:12PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540067-BLK1)

Prepared: 10/01/25 Analyzed: 10/07/25

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	8.98		8.00		112	70-130			

LCS (2540067-BS1)

Prepared: 10/01/25 Analyzed: 10/02/25

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.19	0.0250	5.00		104	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.18		8.00		115	70-130			

Matrix Spike (2540067-MS1)

Source: E509341-10

Prepared: 10/01/25 Analyzed: 10/02/25

Benzene	5.01	0.0250	5.00	ND	100	70-130			
Ethylbenzene	5.01	0.0250	5.00	ND	100	70-130			
Toluene	4.99	0.0250	5.00	ND	99.7	70-130			
o-Xylene	5.09	0.0250	5.00	ND	102	70-130			
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130			
Total Xylenes	15.2	0.0250	15.0	ND	102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.30		8.00		116	70-130			

Matrix Spike Dup (2540067-MSD1)

Source: E509341-10

Prepared: 10/01/25 Analyzed: 10/02/25

Benzene	4.90	0.0250	5.00	ND	97.9	70-130	2.30	27	
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	70-130	2.47	26	
Toluene	4.87	0.0250	5.00	ND	97.3	70-130	2.41	20	
o-Xylene	4.98	0.0250	5.00	ND	99.5	70-130	2.34	25	
p,m-Xylene	9.89	0.0500	10.0	ND	98.9	70-130	2.52	23	
Total Xylenes	14.9	0.0250	15.0	ND	99.1	70-130	2.46	26	
Surrogate: 4-Bromochlorobenzene-PID	9.45		8.00		118	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 12:07:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540067-BLK1) Prepared: 10/01/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			

LCS (2540067-BS2) Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0		94.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike (2540067-MS2) Source: E509341-10 Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			

Matrix Spike Dup (2540067-MSD2) Source: E509341-10 Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	95.0	70-130	2.53	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 12:07:12PM

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
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Blank (2540070-BLK1)					Prepared: 10/01/25 Analyzed: 10/02/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.2		50.0		92.4	61-141			

LCS (2540070-BS1)					Prepared: 10/01/25 Analyzed: 10/02/25				
Diesel Range Organics (C10-C28)	253	25.0	250		101	66-144			
Surrogate: n-Nonane	48.0		50.0		96.0	61-141			

Matrix Spike (2540070-MS1)					Source: E509341-06		Prepared: 10/01/25 Analyzed: 10/02/25		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	56-156			
Surrogate: n-Nonane	51.7		50.0		103	61-141			

Matrix Spike Dup (2540070-MSD1)					Source: E509341-06		Prepared: 10/01/25 Analyzed: 10/02/25		
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	56-156	0.796	20	
Surrogate: n-Nonane	51.1		50.0		102	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 12:07:12PM

Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540082-BLK1)					Prepared: 10/01/25 Analyzed: 10/01/25				
Chloride	ND	20.0							
LCS (2540082-BS1)					Prepared: 10/01/25 Analyzed: 10/01/25				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2540082-MS1)					Source: E509341-05		Prepared: 10/01/25 Analyzed: 10/02/25		
Chloride	424	200	250	ND	170	80-120			M2
Matrix Spike Dup (2540082-MSD1)					Source: E509341-05		Prepared: 10/01/25 Analyzed: 10/02/25		
Chloride	434	200	250	ND	174	80-120	2.24	20	M2

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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/07/25 12:07

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

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

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



Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E509341	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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCO 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1251	09/26/2025	S	1	FS91-5'		1							X		2.6			
1253	09/26/2025	S	1	FS102-9'		2							X		2.4			
1340	09/26/2025	S	1	FS103-9'		3							X		2.0			
1317	09/26/2025	S	1	FS104-9'		4							X		2.4			
1342	09/26/2025	S	1	FS105-9'		5							X		1.8			
1252	09/26/2025	S	1	FS106-9'		6							X		2.6			
1320	09/26/2025	S	1	FS107-9'		7							X		3.0			
1342	09/26/2025	S	1	FS108-9'		8							X		3.0			
1319	09/26/2025	S	1	FS109-9'		9							X		2.4			
1323	09/26/2025	S	1	FS110-9'		10							X		2.8			
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: Higinio Gonzalez, Eric Plugge																		
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.																		

[illegible]

Envirotech Analytical Laboratory

Printed: 10/1/2025 9:55:54AM

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:	10/01/25 07:30	Work Order ID:	E509341
Phone:	(972) 371-5200	Date Logged In:	09/30/25 16:05	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/07/25 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: Dr. Ireland State 16 139 Well Pad

Work Order: E509343

Job Number: 23003-0002

Received: 10/1/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/7/25

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: 10/7/25

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



Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E509343
Date Received: 10/1/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/1/2025 7:30:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Field Offices:

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mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Dr. Ireland State 16 139 Well Pad

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

10/07/25 16:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS218-3'	E509343-01A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS219-3'	E509343-02A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS220-3'	E509343-03A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS221-3'	E509343-04A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS222-3'	E509343-05A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS223-0.5'	E509343-06A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS227-3'	E509343-07A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS228-3'	E509343-08A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS231-0.5'	E509343-09A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS237-3'	E509343-10A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS238-3'	E509343-11A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS239-3'	E509343-12A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS242-3'	E509343-13A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS243-0.5'	E509343-14A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS253-3'	E509343-15A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS254-3'	E509343-16A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS322-1'	E509343-17A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS323-0.5'	E509343-18A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS324-0.5'	E509343-19A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS325-1'	E509343-20A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS326-1'	E509343-21A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS327-0.5'	E509343-22A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS328-0.5'	E509343-23A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS329-0.5'	E509343-24A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS330-0.5'	E509343-25A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS331-0.5'	E509343-26A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS336-1'	E509343-27A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS337-1'	E509343-28A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS338-0.5'	E509343-29A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS339-0.5'	E509343-30A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS340-0.5'	E509343-31A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS341-0.5'	E509343-32A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS347-1'	E509343-33A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS348-1'	E509343-34A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS349-0.5'	E509343-35A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS357-1'	E509343-36A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS358-1'	E509343-37A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS359-0.5'	E509343-38A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS360-0.5'	E509343-39A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS361-0.5'	E509343-40A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.



Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/07/25 16:02
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS363-1'	E509343-41A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS364-1'	E509343-42A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS373-1'	E509343-43A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS374-1'	E509343-44A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS381-1'	E509343-45A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS396-1'	E509343-46A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.
FS390-1'	E509343-47A	Soil	09/29/25	10/01/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS218-3'

E509343-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		118 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.0 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	218	40.0	2	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS219-3'

E509343-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		119 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.6 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	296	40.0	2	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS220-3'

E509343-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		118 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.6 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	209	200	10	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS221-3'

E509343-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	118 %	70-130		10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.8 %	70-130		10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
	112 %	61-141		10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	374	200	10	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS222-3'

E509343-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.4 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
		99.6 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	235	100	5	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS223-0.5'

E509343-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	118 %	70-130		10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.6 %	70-130		10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
	102 %	61-141		10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	401	200	10	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS227-3'

E509343-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.9 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	168	100	5	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS228-3'

E509343-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		116 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.5 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	368	200	10	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS231-0.5'

E509343-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		115 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.5 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	227	200	10	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS237-3'

E509343-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.0 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	338	200	10	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS238-3'

E509343-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.0 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	262	100	5	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS239-3'

E509343-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.4 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	219	200	10	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS242-3'

E509343-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		113 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	242	100	5	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS243-0.5'

E509343-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.4 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	360	200	10	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS253-3'

E509343-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.4 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	206	200	10	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS254-3'

E509343-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.6 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	264	40.0	2	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS322-1'

E509343-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.5 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	373	100	5	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS323-0.5'

E509343-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/07/25	
Toluene	ND	0.0250	1	10/01/25	10/07/25	
o-Xylene	ND	0.0250	1	10/01/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	10/01/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.0 %	70-130	10/01/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	309	100	5	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS324-0.5'

E509343-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/07/25	
Toluene	ND	0.0250	1	10/01/25	10/07/25	
o-Xylene	ND	0.0250	1	10/01/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		113 %	70-130	10/01/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.5 %	70-130	10/01/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	267	200	10	10/01/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS325-1'

E509343-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Benzene	ND	0.0250	1	10/01/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/07/25	
Toluene	ND	0.0250	1	10/01/25	10/07/25	
o-Xylene	ND	0.0250	1	10/01/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		113 %	70-130	10/01/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.4 %	70-130	10/01/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540072	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540086	
Chloride	299	100	5	10/01/25	10/03/25	M2



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS326-1'

E509343-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540078
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540078
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.6 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2540073
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540085
Chloride	111	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS327-0.5'

E509343-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>		99.3 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	308	200	10	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS328-0.5'

E509343-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.0 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>		93.7 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	233	200	10	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS329-0.5'

E509343-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.6 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	194	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS330-0.5'

E509343-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.9 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	167	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS331-0.5'

E509343-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.7 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	140	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS336-1'

E509343-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	323	200	10	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS337-1'

E509343-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.6 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
		97.3 %	61-141	10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	246	200	10	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS338-0.5'

E509343-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	103 %	70-130		10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	302	200	10	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS339-0.5'

E509343-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.2 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	259	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS340-0.5'

E509343-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540078
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540078
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.8 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2540073
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540085
Chloride	273	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS341-0.5'

E509343-32

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	100 %	70-130		10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	262	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS347-1'

E509343-33

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>		100 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	220	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS348-1'

E509343-34

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.5 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	387	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS349-0.5'

E509343-35

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.3 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	299	200	10	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS357-1'

E509343-36

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.1 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		99.8 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	259	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS358-1'

E509343-37

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.6 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	204	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS359-0.5'

E509343-38

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.8 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	240	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS360-0.5'

E509343-39

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.7 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
		98.6 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	321	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS361-0.5'

E509343-40

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Benzene	ND	0.0250	1	10/01/25	10/02/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/02/25	
Toluene	ND	0.0250	1	10/01/25	10/02/25	
o-Xylene	ND	0.0250	1	10/01/25	10/02/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/02/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.3 %	70-130	10/01/25	10/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2540073	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>		94.1 %	61-141	10/01/25	10/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540085	
Chloride	312	100	5	10/01/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS363-1'

E509343-41

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Benzene	ND	0.0250	1	10/01/25	10/01/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/01/25	
Toluene	ND	0.0250	1	10/01/25	10/01/25	
o-Xylene	ND	0.0250	1	10/01/25	10/01/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/01/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540074	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/01/25	
<i>Surrogate: n-Nonane</i>						
	97.9 %	61-141		10/01/25	10/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540087	
Chloride	244	100	5	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS364-1'

E509343-42

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Benzene	ND	0.0250	1	10/01/25	10/01/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/01/25	
Toluene	ND	0.0250	1	10/01/25	10/01/25	
o-Xylene	ND	0.0250	1	10/01/25	10/01/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/01/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540074	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
	99.9 %	61-141		10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540087	
Chloride	293	100	5	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS373-1'

E509343-43

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Benzene	ND	0.0250	1	10/01/25	10/01/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/01/25	
Toluene	ND	0.0250	1	10/01/25	10/01/25	
o-Xylene	ND	0.0250	1	10/01/25	10/01/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/01/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.3 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540074	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
	98.9 %	61-141		10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540087	
Chloride	194	100	5	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS374-1'

E509343-44

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Benzene	ND	0.0250	1	10/01/25	10/01/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/01/25	
Toluene	ND	0.0250	1	10/01/25	10/01/25	
o-Xylene	ND	0.0250	1	10/01/25	10/01/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/01/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540074	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
	100 %	61-141		10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540087	
Chloride	243	100	5	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS381-1'

E509343-45

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Benzene	ND	0.0250	1	10/01/25	10/01/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/01/25	
Toluene	ND	0.0250	1	10/01/25	10/01/25	
o-Xylene	ND	0.0250	1	10/01/25	10/01/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/01/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.3 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540074	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
	95.1 %	61-141		10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540087	
Chloride	225	100	5	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS396-1'

E509343-46

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Benzene	ND	0.0250	1	10/01/25	10/01/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/01/25	
Toluene	ND	0.0250	1	10/01/25	10/01/25	
o-Xylene	ND	0.0250	1	10/01/25	10/01/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/01/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.8 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540074	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
	98.6 %	61-141		10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540087	
Chloride	221	100	5	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2025 4:02:25PM

FS390-1'

E509343-47

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Benzene	ND	0.0250	1	10/01/25	10/01/25	
Ethylbenzene	ND	0.0250	1	10/01/25	10/01/25	
Toluene	ND	0.0250	1	10/01/25	10/01/25	
o-Xylene	ND	0.0250	1	10/01/25	10/01/25	
p,m-Xylene	ND	0.0500	1	10/01/25	10/01/25	
Total Xylenes	ND	0.0250	1	10/01/25	10/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540062	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/01/25	10/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		10/01/25	10/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2540074	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/01/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/01/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
	96.8 %	61-141		10/01/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540087	
Chloride	247	100	5	10/02/25	10/02/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 4:02:25PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540062-BLK1) Prepared: 10/01/25 Analyzed: 10/01/25

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	7.77		8.00		97.1	70-130			

LCS (2540062-BS1) Prepared: 10/01/25 Analyzed: 10/01/25

Benzene	4.06	0.0250	5.00		81.3	70-130			
Ethylbenzene	3.95	0.0250	5.00		79.0	70-130			
Toluene	4.01	0.0250	5.00		80.3	70-130			
o-Xylene	3.99	0.0250	5.00		79.8	70-130			
p,m-Xylene	8.02	0.0500	10.0		80.2	70-130			
Total Xylenes	12.0	0.0250	15.0		80.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.8	70-130			

Matrix Spike (2540062-MS1) Source: E509343-42 Prepared: 10/01/25 Analyzed: 10/01/25

Benzene	4.85	0.0250	5.00	ND	97.0	70-130			
Ethylbenzene	4.70	0.0250	5.00	ND	94.0	70-130			
Toluene	4.79	0.0250	5.00	ND	95.7	70-130			
o-Xylene	4.75	0.0250	5.00	ND	95.0	70-130			
p,m-Xylene	9.52	0.0500	10.0	ND	95.2	70-130			
Total Xylenes	14.3	0.0250	15.0	ND	95.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

Matrix Spike Dup (2540062-MSD1) Source: E509343-42 Prepared: 10/01/25 Analyzed: 10/01/25

Benzene	4.57	0.0250	5.00	ND	91.4	70-130	6.00	27	
Ethylbenzene	4.45	0.0250	5.00	ND	89.0	70-130	5.46	26	
Toluene	4.51	0.0250	5.00	ND	90.3	70-130	5.87	20	
o-Xylene	4.48	0.0250	5.00	ND	89.6	70-130	5.84	25	
p,m-Xylene	9.01	0.0500	10.0	ND	90.1	70-130	5.52	23	
Total Xylenes	13.5	0.0250	15.0	ND	89.9	70-130	5.63	26	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 4:02:25PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540077-BLK1)

Prepared: 10/01/25 Analyzed: 10/02/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	9.15		8.00		114	70-130			

LCS (2540077-BS1)

Prepared: 10/01/25 Analyzed: 10/02/25

Benzene	3.98	0.0250	5.00		79.6	70-130			
Ethylbenzene	4.02	0.0250	5.00		80.4	70-130			
Toluene	3.98	0.0250	5.00		79.6	70-130			
o-Xylene	4.12	0.0250	5.00		82.4	70-130			
p,m-Xylene	8.20	0.0500	10.0		82.0	70-130			
Total Xylenes	12.3	0.0250	15.0		82.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.47		8.00		118	70-130			

Matrix Spike (2540077-MS1)

Source: E509343-03

Prepared: 10/01/25 Analyzed: 10/02/25

Benzene	4.56	0.0250	5.00	ND	91.3	70-130			
Ethylbenzene	4.60	0.0250	5.00	ND	91.9	70-130			
Toluene	4.56	0.0250	5.00	ND	91.2	70-130			
o-Xylene	4.69	0.0250	5.00	ND	93.8	70-130			
p,m-Xylene	9.33	0.0500	10.0	ND	93.3	70-130			
Total Xylenes	14.0	0.0250	15.0	ND	93.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.47		8.00		118	70-130			

Matrix Spike Dup (2540077-MSD1)

Source: E509343-03

Prepared: 10/01/25 Analyzed: 10/02/25

Benzene	4.21	0.0250	5.00	ND	84.1	70-130	8.18	27	
Ethylbenzene	4.24	0.0250	5.00	ND	84.8	70-130	8.03	26	
Toluene	4.20	0.0250	5.00	ND	83.9	70-130	8.33	20	
o-Xylene	4.30	0.0250	5.00	ND	86.1	70-130	8.56	25	
p,m-Xylene	8.62	0.0500	10.0	ND	86.2	70-130	7.96	23	
Total Xylenes	12.9	0.0250	15.0	ND	86.2	70-130	8.16	26	
Surrogate: 4-Bromochlorobenzene-PID	9.46		8.00		118	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 4:02:25PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540078-BLK1)

Prepared: 10/01/25 Analyzed: 10/02/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.62		8.00		108	70-130			

LCS (2540078-BS1)

Prepared: 10/01/25 Analyzed: 10/02/25

Benzene	5.08	0.0250	5.00		102	70-130			
Ethylbenzene	5.06	0.0250	5.00		101	70-130			
Toluene	5.06	0.0250	5.00		101	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.55		8.00		107	70-130			

Matrix Spike (2540078-MS1)

Source: E509343-23

Prepared: 10/01/25 Analyzed: 10/02/25

Benzene	5.37	0.0250	5.00	ND	107	70-130			
Ethylbenzene	5.34	0.0250	5.00	ND	107	70-130			
Toluene	5.36	0.0250	5.00	ND	107	70-130			
o-Xylene	5.37	0.0250	5.00	ND	107	70-130			
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130			
Total Xylenes	16.2	0.0250	15.0	ND	108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

Matrix Spike Dup (2540078-MSD1)

Source: E509343-23

Prepared: 10/01/25 Analyzed: 10/02/25

Benzene	5.15	0.0250	5.00	ND	103	70-130	4.28	27	
Ethylbenzene	5.12	0.0250	5.00	ND	102	70-130	4.09	26	
Toluene	5.12	0.0250	5.00	ND	102	70-130	4.42	20	
o-Xylene	5.14	0.0250	5.00	ND	103	70-130	4.34	25	
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130	3.98	23	
Total Xylenes	15.5	0.0250	15.0	ND	103	70-130	4.10	26	
Surrogate: 4-Bromochlorobenzene-PID	8.18		8.00		102	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 4:02:25PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540062-BLK1) Prepared: 10/01/25 Analyzed: 10/01/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			

LCS (2540062-BS2) Prepared: 10/01/25 Analyzed: 10/01/25

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0		97.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			

Matrix Spike (2540062-MS2) Source: E509343-42 Prepared: 10/01/25 Analyzed: 10/01/25

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.3	70-130			

Matrix Spike Dup (2540062-MSD2) Source: E509343-42 Prepared: 10/01/25 Analyzed: 10/01/25

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	95.9	70-130	2.98	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 4:02:25PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540077-BLK1) Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130			

LCS (2540077-BS2) Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.3	70-130			

Matrix Spike (2540077-MS2) Source: E509343-03 Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.4	70-130			

Matrix Spike Dup (2540077-MSD2) Source: E509343-03 Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130	4.97	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 4:02:25PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540078-BLK1) Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.2	70-130			

LCS (2540078-BS2) Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	54.4	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

Matrix Spike (2540078-MS2) Source: E509343-23 Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

Matrix Spike Dup (2540078-MSD2) Source: E509343-23 Prepared: 10/01/25 Analyzed: 10/02/25

Gasoline Range Organics (C6-C10)	59.1	20.0	50.0	ND	118	70-130	11.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 4:02:25PM

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
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Blank (2540072-BLK1)					Prepared: 10/01/25 Analyzed: 10/01/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.5		50.0		97.0	61-141			

LCS (2540072-BS1)					Prepared: 10/01/25 Analyzed: 10/01/25				
Diesel Range Organics (C10-C28)	254	25.0	250		102	66-144			
Surrogate: n-Nonane	48.6		50.0		97.1	61-141			

Matrix Spike (2540072-MS1)					Source: E509343-16		Prepared: 10/01/25 Analyzed: 10/01/25		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	56-156			
Surrogate: n-Nonane	49.9		50.0		99.7	61-141			

Matrix Spike Dup (2540072-MSD1)					Source: E509343-16		Prepared: 10/01/25 Analyzed: 10/01/25		
Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	56-156	6.70	20	
Surrogate: n-Nonane	53.7		50.0		107	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 4:02:25PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540073-BLK1)					Prepared: 10/01/25 Analyzed: 10/01/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.4		50.0		92.9	61-141			

LCS (2540073-BS1)					Prepared: 10/01/25 Analyzed: 10/01/25				
Diesel Range Organics (C10-C28)	242	25.0	250		96.7	66-144			
Surrogate: n-Nonane	47.1		50.0		94.1	61-141			

Matrix Spike (2540073-MS1)					Source: E509343-36		Prepared: 10/01/25 Analyzed: 10/01/25		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	56-156			
Surrogate: n-Nonane	48.6		50.0		97.2	61-141			

Matrix Spike Dup (2540073-MSD1)					Source: E509343-36		Prepared: 10/01/25 Analyzed: 10/01/25		
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	56-156	0.578	20	
Surrogate: n-Nonane	49.2		50.0		98.4	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 4:02:25PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540074-BLK1)					Prepared: 10/01/25 Analyzed: 10/01/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.5	61-141			

LCS (2540074-BS1)					Prepared: 10/01/25 Analyzed: 10/01/25				
Diesel Range Organics (C10-C28)	245	25.0	250		97.9	66-144			
Surrogate: n-Nonane	46.0		50.0		92.1	61-141			

Matrix Spike (2540074-MS1)					Source: E509342-24		Prepared: 10/01/25 Analyzed: 10/01/25		
Diesel Range Organics (C10-C28)	251	25.0	250	ND	101	56-156			
Surrogate: n-Nonane	48.1		50.0		96.3	61-141			

Matrix Spike Dup (2540074-MSD1)					Source: E509342-24		Prepared: 10/01/25 Analyzed: 10/01/25		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156	1.49	20	
Surrogate: n-Nonane	49.0		50.0		98.1	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 4:02:25PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540085-BLK1)					Prepared: 10/01/25 Analyzed: 10/02/25				
Chloride	ND	20.0							
LCS (2540085-BS1)					Prepared: 10/01/25 Analyzed: 10/02/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2540085-MS1)					Source: E509343-26		Prepared: 10/01/25 Analyzed: 10/02/25		
Chloride	398	100	250	140	103	80-120			
Matrix Spike Dup (2540085-MSD1)					Source: E509343-26		Prepared: 10/01/25 Analyzed: 10/02/25		
Chloride	401	100	250	140	104	80-120	0.772	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2025 4:02:25PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2540086-BLK1)					Prepared: 10/01/25 Analyzed: 10/02/25				
Chloride	ND	20.0							
LCS (2540086-BS1)					Prepared: 10/01/25 Analyzed: 10/02/25				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2540086-MS1)					Source: E509343-06		Prepared: 10/01/25 Analyzed: 10/02/25		
Chloride	656	200	250	401	102	80-120			
Matrix Spike Dup (2540086-MSD1)					Source: E509343-06		Prepared: 10/01/25 Analyzed: 10/02/25		
Chloride	601	200	250	401	79.9	80-120	8.72	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2025 4:02:25PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540087-BLK1)					Prepared: 10/02/25 Analyzed: 10/02/25				
Chloride	ND	20.0							
LCS (2540087-BS1)					Prepared: 10/02/25 Analyzed: 10/02/25				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2540087-MS1)					Source: E510003-02		Prepared: 10/02/25 Analyzed: 10/02/25		
Chloride	254	20.0	250	ND	101	80-120			
Matrix Spike Dup (2540087-MSD1)					Source: E510003-02		Prepared: 10/02/25 Analyzed: 10/02/25		
Chloride	253	20.0	250	ND	101	80-120	0.392	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/07/25 16:02

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

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

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

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E509343	23008-0002				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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDQC - NM	BGDQC - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
1256	09/29/2025	S	1	FS218-3'		1							X		2.4			
1257	09/29/2025	S	1	FS219-3'		2							X		2.6			
1223	09/29/2025	S	1	FS220-3'		3							X		3.0			
1221	09/29/2025	S	1	FS221-3'		4							X		2.0			
1201	09/29/2025	S	1	FS222-3'		5							X		3.4			
1046	09/29/2025	S	1	FS223-3' H ₂ O 0.5'		6							X		3.0			
1255	09/29/2025	S	1	FS227-3'		7							X		1.9			
1225	09/29/2025	S	1	FS228-3'		8							X		3.2			
1044	09/29/2025	S	1	FS231-0.5'		9							X		2.8			
1252	09/29/2025	S	1	FS237-3'		10							X		2.2			
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: Higinio Gonzalez, Eric Plugge																		
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.																		

Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador				Company: Ensolum LLC		Lab WO#	Lab Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E60934B	23003-002				x	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method						EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCED 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA
1227	09/29/2025	S	1	FS 238-3'		11							X		3.2		
1250	09/29/2025	S	1	FS 239-3'		12							X		3.0		
1200	09/29/2025	S	1	FS 242-3'		13							X		2.8		
1042	09/29/2025	S	1	FS 243-0.5'		14							X		2.4		
1249	09/29/2025	S	1	FS 253-3'		15							X		3.0		
1228	09/29/2025	S	1	FS 254-3'		16							X		2.4		
1400	09/29/2025	S	1	FS 322-1'		17							X		2.8		
1143	09/29/2025	S	1	FS 323-0.5'		18							X		3.2		
1040	09/29/2025	S	1	FS 324-0.5'		19							X		3.0		
1450	09/29/2025	S	1	FS 325-1'		20							X		3.4		
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																	
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Sampled by: Higinio Gonzalez, Eric Plugge																	
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																	
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Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E-009343	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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1401	09/29/2025	S	1	FS326-1'		21							X		2.0			
1039	09/29/2025	S	1	FS327-0.5'		22							X		2.0			
1102	09/29/2025	S	1	FS328-0.5'		23							X		3.6			
1100	09/29/2025	S	1	FS329-0.5'		24							X		3.8			
1020	09/29/2025	S	1	FS330-0.5'		25							X		3.4			
1022	09/29/2025	S	1	FS331-0.5'		26							X		3.0			
1403	09/29/2025	S	1	FS336-1'		27							X		2.4			
1405	09/29/2025	S	1	FS337-1'		28							X		2.8			
1059	09/29/2025	S	1	FS338-0.5'		29							X		2.6			
1039	09/29/2025	S	1	FS339-0.5'		30							X		2.10			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																		
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Sampled by: Higinio Gonzalez, Eric Plugge																		
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																		
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Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Project Name: Dr. Ireland State 16 139 Well Pad Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
						E509343	23013002				X	X					
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	TCED 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA
														Compliance	Y	or	N
														PWSID #			
														Sample Temp	Remarks		
1025	09/29/2025	S	1	FS340 - 0.5'		31							X		1.6		
1019	09/29/2025	S	1	FS341 - 0.5'		32							X		2.0		
1445	09/29/2025	S	1	FS347 - 1'		33							X		2.8		
1404	09/29/2025	S	1	FS348 - 1'		34							X		2.0		
1105	09/29/2025	S	1	FS349 - 0.5'		35							X		2.4		
1430	09/29/2025	S	1	FS357 - 1'		36							X		3.0		
1446	09/29/2025	S	1	FS358 - 1'		37							X		3.2		
1145	09/29/2025	S	1	FS359 - 0.5'		38							X		2.8		
1140	09/29/2025	S	1	FS360 - 0.5'		39							X		2.6		
1141	09/29/2025	S	1	FS361 - 0.5'		40							X		2.2		

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: Higinio Gonzalez, Eric Plugge

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	09-30-25	700	Michelle Gonzalez	9.30.25	0700
	9.30.25	1500		9.30.25	1500
	9.30.25	1440	Andrew Musso	9.30.25	1440
	10.1.25	0115		10.1.25	730

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

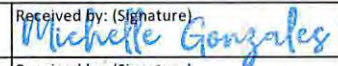
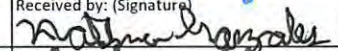
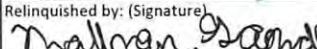
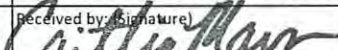
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E609843	23008 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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
1479	09/29/2025	S	1	FS363-1'		41							X		3.1			
1411	09/29/2025	S	1	FS364-1'		42							X		2.4			
1435	09/29/2025	S	1	FS373-1'		43							X		2.6			
1413	09/29/2025	S	1	FS374-1'		44							X		2.8			
1437	09/29/2025	S	1	FS381-1'		45							X		2.0			
1448	09/29/2025	S	1	FS396-1'		46							X		3.0			
1414	09/29/2025	S	1	FS390-1'		47							X		3.6			
	09/29/2025	S	1										X					
	09/29/2025	S	1										X					
	09/29/2025	S	1										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: Higinio Gonzalez, Eric Plugge																		
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										
		09-30-25	700			9-30-25	0700											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
		9-30-25	1500			9-30-25	1500											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
		9-30-25	1940			9-30-25	1940											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
		10-1-25	0615			10-1-25	730											
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: 10/1/2025 9:58:55AM

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:	10/01/25 07:30	Work Order ID:	E509343
Phone:	(972) 371-5200	Date Logged In:	09/30/25 16:06	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/07/25 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.

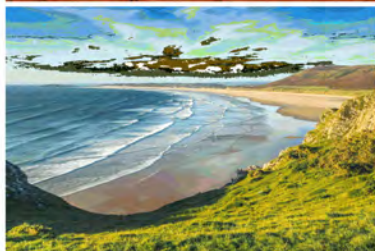
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E510014

Job Number: 23003-0002

Received: 10/2/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/14/25

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: 10/14/25

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



Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E510014
Date Received: 10/2/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/2/2025 8:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/14/25 10:52
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS332-1'	E510014-01A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS333-1'	E510014-02A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS334-1'	E510014-03A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS335-1'	E510014-04A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS342-1'	E510014-05A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS343-1'	E510014-06A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS345-1'	E510014-07A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS346-1'	E510014-08A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS352-1'	E510014-09A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS353-1'	E510014-10A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS354-1'	E510014-11A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS355-1'	E510014-12A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS356-1'	E510014-13A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS369-1'	E510014-14A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS370-1'	E510014-15A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS371-1'	E510014-16A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS372-1'	E510014-17A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS378-1'	E510014-18A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS379-1'	E510014-19A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS380-1'	E510014-20A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS387-1'	E510014-21A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS388-1'	E510014-22A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS389-1'	E510014-23A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS394-1'	E510014-24A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
FS402-1'	E510014-25A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW05-0-0.5'	E510014-26A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW06-0-0.5'	E510014-27A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW07-0-0.5'	E510014-28A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW08-0-0.5'	E510014-29A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.
SW09-0-1'	E510014-30A	Soil	09/30/25	10/02/25	Glass Jar, 2 oz.



Case Narrative:

Project Name: Dr. Ireland State 16 139 Well Pad

Workorder:E510014

Date Received: 10/02/25 08:00

The client requested the following sample(s) to be re-extracted and re-analyzed:

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Analysis</u>
SW09- 0-1'	E510014-30A	Chloride by 300.0

The analytical test results summarized in this revised report represent this re-extraction and re-analysis.

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

Respectfully,

Walter Hinchman



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS332-1'

E510014-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.2 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	97.3 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>	98.5 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	327	100	5	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS333-1'

E510014-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	95.7 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	ND	100	5	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS334-1'

E510014-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	94.1 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	ND	100	5	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS335-1'

E510014-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	93.8 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	ND	100	5	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS342-1'

E510014-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	96.7 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	350	100	5	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS343-1'

E510014-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	94.7 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	276	100	5	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS345-1'

E510014-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	93.9 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	320	100	5	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS346-1'

E510014-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	95.1 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	ND	100	5	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS352-1'

E510014-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	95.9 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	260	200	10	10/02/25	10/02/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS353-1'

E510014-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	95.9 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	241	200	10	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS354-1'

E510014-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.6 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.1 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>	95.3 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	ND	200	10	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS355-1'

E510014-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.2 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.9 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>	95.3 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	186	100	5	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS356-1'

E510014-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540105
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
Surrogate: 4-Bromochlorobenzene-PID	95.2 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540105
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.6 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540092
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
Surrogate: n-Nonane	95.1 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540111
Chloride	312	200	10	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS369-1'

E510014-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	96.9 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	387	200	10	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS370-1'

E510014-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	96.6 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	ND	200	10	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS371-1'

E510014-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	94.3 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	176	100	5	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS372-1'

E510014-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.8 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.4 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>	96.0 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	173	100	5	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS378-1'

E510014-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.9 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.0 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>	94.0 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	309	200	10	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS379-1'

E510014-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2540105	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2540092	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	93.5 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540111	
Chloride	236	100	5	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS380-1'

E510014-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540105
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2540105
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2540092
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
	93.6 %	61-141		10/02/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540111
Chloride	355	200	10	10/02/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS387-1'

E510014-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540106
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540106
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/02/25	
<i>Surrogate: n-Nonane</i>						
	91.6 %	61-141		10/02/25	10/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540117
Chloride	352	100	5	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS388-1'

E510014-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540106
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540106
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	88.6 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540117
Chloride	322	100	5	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS389-1'

E510014-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540106	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540096	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	92.8 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540117	
Chloride	338	200	10	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS394-1'

E510014-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540106	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540096	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	90.0 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540117	
Chloride	194	100	5	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

FS402-1'

E510014-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540106	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540096	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	91.3 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540117	
Chloride	158	100	5	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

SW05-0-0.5'

E510014-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540106
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540106
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	90.6 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2540117
Chloride	241	100	5	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

SW06-0-0.5'

E510014-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540106	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540096	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	93.5 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540117	
Chloride	291	100	5	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

SW07-0-0.5'

E510014-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540106	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540096	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	91.0 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540117	
Chloride	247	100	5	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

SW08-0-0.5'

E510014-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540106	
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540096	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	94.2 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2540117	
Chloride	264	100	5	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 10:52:17AM

SW09-0-1'

E510014-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540106
Benzene	ND	0.0250	1	10/02/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/02/25	10/03/25	
Toluene	ND	0.0250	1	10/02/25	10/03/25	
o-Xylene	ND	0.0250	1	10/02/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/02/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/02/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540106
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/02/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		10/02/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540096
Diesel Range Organics (C10-C28)	ND	25.0	1	10/02/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/02/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	93.8 %	61-141		10/02/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541119
Chloride	440	200	10	10/09/25	10/09/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 10:52:17AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540105-BLK1) Prepared: 10/02/25 Analyzed: 10/07/25

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	7.60		8.00		95.0	70-130			

LCS (2540105-BS1) Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	4.16	0.0250	5.00		83.2	70-130			
Ethylbenzene	4.03	0.0250	5.00		80.5	70-130			
Toluene	4.11	0.0250	5.00		82.2	70-130			
o-Xylene	4.10	0.0250	5.00		82.0	70-130			
p,m-Xylene	8.16	0.0500	10.0		81.6	70-130			
Total Xylenes	12.3	0.0250	15.0		81.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.48		8.00		93.4	70-130			

Matrix Spike (2540105-MS1) Source: E510014-01 Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	4.44	0.0250	5.00	ND	88.8	70-130			
Ethylbenzene	4.32	0.0250	5.00	ND	86.4	70-130			
Toluene	4.39	0.0250	5.00	ND	87.9	70-130			
o-Xylene	4.37	0.0250	5.00	ND	87.5	70-130			
p,m-Xylene	8.74	0.0500	10.0	ND	87.4	70-130			
Total Xylenes	13.1	0.0250	15.0	ND	87.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.7	70-130			

Matrix Spike Dup (2540105-MSD1) Source: E510014-01 Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	4.26	0.0250	5.00	ND	85.3	70-130	4.08	27	
Ethylbenzene	4.14	0.0250	5.00	ND	82.8	70-130	4.27	26	
Toluene	4.21	0.0250	5.00	ND	84.2	70-130	4.33	20	
o-Xylene	4.20	0.0250	5.00	ND	84.1	70-130	3.98	25	
p,m-Xylene	8.39	0.0500	10.0	ND	83.9	70-130	4.09	23	
Total Xylenes	12.6	0.0250	15.0	ND	84.0	70-130	4.06	26	
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 10:52:17AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540106-BLK1)

Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.6	70-130			

LCS (2540106-BS1)

Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	4.62	0.0250	5.00		92.4	70-130			
Ethylbenzene	4.70	0.0250	5.00		94.0	70-130			
Toluene	4.68	0.0250	5.00		93.7	70-130			
o-Xylene	4.81	0.0250	5.00		96.1	70-130			
p,m-Xylene	9.55	0.0500	10.0		95.5	70-130			
Total Xylenes	14.4	0.0250	15.0		95.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			

Matrix Spike (2540106-MS1)

Source: E510014-22

Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	4.58	0.0250	5.00	ND	91.6	70-130			
Ethylbenzene	4.61	0.0250	5.00	ND	92.3	70-130			
Toluene	4.61	0.0250	5.00	ND	92.1	70-130			
o-Xylene	4.59	0.0250	5.00	ND	91.9	70-130			
p,m-Xylene	9.32	0.0500	10.0	ND	93.2	70-130			
Total Xylenes	13.9	0.0250	15.0	ND	92.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2540106-MSD1)

Source: E510014-22

Prepared: 10/02/25 Analyzed: 10/03/25

Benzene	4.97	0.0250	5.00	ND	99.3	70-130	8.11	27	
Ethylbenzene	5.06	0.0250	5.00	ND	101	70-130	9.27	26	
Toluene	5.03	0.0250	5.00	ND	101	70-130	8.75	20	
o-Xylene	5.06	0.0250	5.00	ND	101	70-130	9.56	25	
p,m-Xylene	10.2	0.0500	10.0	ND	102	70-130	9.35	23	
Total Xylenes	15.3	0.0250	15.0	ND	102	70-130	9.42	26	
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 10:52:17AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540105-BLK1)					Prepared: 10/02/25 Analyzed: 10/07/25				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

LCS (2540105-BS2)					Prepared: 10/02/25 Analyzed: 10/03/25				
Gasoline Range Organics (C6-C10)	44.1	20.0	50.0		88.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

Matrix Spike (2540105-MS2)					Source: E510014-01		Prepared: 10/02/25 Analyzed: 10/03/25		
Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.6	70-130			

Matrix Spike Dup (2540105-MSD2)					Source: E510014-01		Prepared: 10/02/25 Analyzed: 10/03/25		
Gasoline Range Organics (C6-C10)	50.3	20.0	50.0	ND	101	70-130	1.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 10:52:17AM

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
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Blank (2540106-BLK1) Prepared: 10/02/25 Analyzed: 10/03/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

LCS (2540106-BS2) Prepared: 10/02/25 Analyzed: 10/03/25

Gasoline Range Organics (C6-C10)	55.6	20.0	50.0		111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

Matrix Spike (2540106-MS2) Source: E510014-22 Prepared: 10/02/25 Analyzed: 10/03/25

Gasoline Range Organics (C6-C10)	60.0	20.0	50.0	ND	120	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike Dup (2540106-MSD2) Source: E510014-22 Prepared: 10/02/25 Analyzed: 10/03/25

Gasoline Range Organics (C6-C10)	59.0	20.0	50.0	ND	118	70-130	1.69	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 10:52:17AM

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
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Blank (2540092-BLK1)

Prepared: 10/02/25 Analyzed: 10/03/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	46.2		50.0		92.3	61-141			

LCS (2540092-BS1)

Prepared: 10/02/25 Analyzed: 10/03/25

Diesel Range Organics (C10-C28)	249	25.0	250		99.6	66-144			
Surrogate: <i>n</i> -Nonane	47.7		50.0		95.4	61-141			

Matrix Spike (2540092-MS1)

Source: E510014-15

Prepared: 10/02/25 Analyzed: 10/03/25

Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	56-156			
Surrogate: <i>n</i> -Nonane	49.5		50.0		98.9	61-141			

Matrix Spike Dup (2540092-MSD1)

Source: E510014-15

Prepared: 10/02/25 Analyzed: 10/03/25

Diesel Range Organics (C10-C28)	251	25.0	250	ND	101	56-156	3.38	20	
Surrogate: <i>n</i> -Nonane	48.5		50.0		96.9	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 10:52:17AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540096-BLK1)					Prepared: 10/02/25 Analyzed: 10/02/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.9		50.0		91.7	61-141			

LCS (2540096-BS1)					Prepared: 10/02/25 Analyzed: 10/02/25				
Diesel Range Organics (C10-C28)	250	25.0	250		100	66-144			
Surrogate: n-Nonane	48.0		50.0		96.0	61-141			

Matrix Spike (2540096-MS1)					Source: E510014-27		Prepared: 10/02/25 Analyzed: 10/02/25		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	56-156			
Surrogate: n-Nonane	56.2		50.0		112	61-141			

Matrix Spike Dup (2540096-MSD1)					Source: E510014-27		Prepared: 10/02/25 Analyzed: 10/02/25		
Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	56-156	2.40	20	
Surrogate: n-Nonane	57.0		50.0		114	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 10:52:17AM

Anions by EPA 300.0/9056A

Analyst: TP

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

Blank (2540111-BLK1)					Prepared: 10/02/25 Analyzed: 10/02/25				
Chloride	ND	20.0							
LCS (2540111-BS1)					Prepared: 10/02/25 Analyzed: 10/02/25				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2540111-MS1)					Source: E510014-09		Prepared: 10/02/25 Analyzed: 10/02/25		
Chloride	489	200	250	260	91.8	80-120			
Matrix Spike Dup (2540111-MSD1)					Source: E510014-09		Prepared: 10/02/25 Analyzed: 10/02/25		
Chloride	496	200	250	260	94.5	80-120	1.37	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 10:52:17AM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2540117-BLK1)					Prepared: 10/03/25 Analyzed: 10/03/25				
Chloride	ND	20.0							
LCS (2540117-BS1)					Prepared: 10/03/25 Analyzed: 10/03/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2540117-MS1)					Source: E510023-21		Prepared: 10/03/25 Analyzed: 10/03/25		
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2540117-MSD1)					Source: E510023-21		Prepared: 10/03/25 Analyzed: 10/03/25		
Chloride	255	20.0	250	ND	102	80-120	0.871	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 10:52:17AM

Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541119-BLK1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Chloride	ND	20.0							
LCS (2541119-BS1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2541119-MS1)					Source: E510092-03		Prepared: 10/09/25 Analyzed: 10/10/25		
Chloride	561	20.0	250	288	109	80-120			
Matrix Spike Dup (2541119-MSD1)					Source: E510092-03		Prepared: 10/09/25 Analyzed: 10/10/25		
Chloride	537	20.0	250	288	99.5	80-120	4.36	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/25 10:52

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

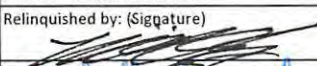
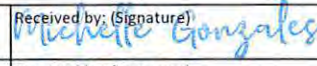
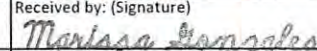
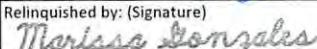
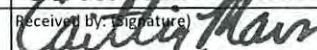
DNI Did Not Ignite

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

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

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



Client Information				Invoice Information		Lab Use Only		TAT		State							
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510014	23003-002				x	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method						EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA
1514	09/30/2025	S	1	FS332-1'		1							X		3.2		
0951	09/30/2025	S	1	FS333-1'		2							X		3.0		
1029	09/30/2025	S	1	FS334-1'		3							X		2.6		
0950	09/30/2025	S	1	FS335-1'		4							X		2.8		
1530	09/30/2025	S	1	FS342-1'		5							X		3.4		
1533	09/30/2025	S	1	FS343-1'		6							X		1.9		
1515	09/30/2025	S	1	FS345-1'		7							X		1.8		
1204	09/30/2025	S	1	FS346-1'		8							X		2.1		
1510	09/30/2025	S	1	FS352-1'		9							X		2.0		
1512	09/30/2025	S	1	FS353-1'		10							X		2.4		
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Higinio Gonzalez																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: ☒ Y ☐ N									
		10-01-25	1010			10-1-25	1010										
		10-1-25	1445			10-1-25	1445										
		10-1-25	1900			10-1-25	1900										
		10-1-25	2345			10-2-25	800										
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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510014	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	TCED 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1332	09/30/2025	S	1	FS354-1'		11							X		25			
1212	09/30/2025	S	1	FS355-1'		12							X		2.2			
1230	09/30/2025	S	1	FS356-1'		13							X		1.8			
1328	09/30/2025	S	1	FS369-1'		14							X		1.6			
1330	09/30/2025	S	1	FS370-1'		15							X		3.0			
1210	09/30/2025	S	1	FS371-1'		16							X		3.6			
1205	09/30/2025	S	1	FS372-1'		17							X		3.6			
1250	09/30/2025	S	1	FS378-1'		18							X		2.8			
0945	09/30/2025	S	1	FS379-1'		19							X		2.4			
1047	09/30/2025	S	1	FS380-1'		20							X		2.0			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																		
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Sampled by: Higinio Gonzalez																		
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<i>Michelle Gonzales</i>		10-01-25	1010	<i>Michelle Gonzales</i>		10-1-25	1010											
<i>Michelle Gonzales</i>		10-1-25	1445	<i>Marissa Gonzales</i>		10-1-25	1445											
<i>Marissa Gonzales</i>		10-1-25	1900	<i>Andrew Musso</i>		10-1-25	1900											
<i>Andrew Musso</i>		10-1-25	2345	<i>Caitlin Mar</i>		10-2-25	800											
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																		
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Sample Information						Analysis and Method						EPA Program						
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1410	09/30/2025	S	1	FS387-1'		21							X		2.4			
1405	09/30/2025	S	1	FS388-1'		22							X		2.2			
0944	09/30/2025	S	1	FS389-1'		23							X		1.8			
1420	09/30/2025	S	1	FS394-1'		24							X		1.8			
1421	09/30/2025	S	1	FS402-1'		25							X		2.0			
0900	09/30/2025	S	1	SW05- 0-0.5'		26							X		2.6			
0830	09/30/2025	S	1	SW06- 0-0.5'		27							X		3.6			
0833	09/30/2025	S	1	SW07- 0-0.5'		28							X		3.0			
0834	09/30/2025	S	1	SW08- 0-0.5'		29							X		3.2			
1300	09/30/2025	S	1	SW09- 0-1'		30							X		2.8			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																		
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<i>Michelle Gonzales</i>		10-01-25	1010	<i>Michelle Gonzales</i>		10-1-25	1010											
<i>Michelle Gonzales</i>		10-1-25	1445	<i>Mariassa Gonzales</i>		10-1-25	1445											
<i>Mariassa Gonzales</i>		10-1-25	1900	<i>Andrew Musso</i>		10-1-25	1900											
<i>Andrew Musso</i>		10-1-25	2345	<i>Chadman</i>		10-2-25	800											
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Envirotech Analytical Laboratory

Printed: 10/2/2025 10:18:55AM

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:	10/02/25 08:00	Work Order ID:	E510014
Phone:	(972) 371-5200	Date Logged In:	10/01/25 16:27	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/08/25 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

Carrier: Courier

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

Comments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? 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 3

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Matador				Company: Ensolum LLC		Lab WO# E510014		Job Number 23003-002		1D	2D	3D	Std	NM	CO	UT	TX	
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy										X				
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information				Analysis and Method										EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	INDDOC - NM	BGDDOC - TX	SDWA	CWA	RCRA	
1514	09/30/2025	S	1	FS332-1'		1								X	3.2			Client
0951	09/30/2025	S	1	FS333-1'		2								X	3.0			reg rerun
1029	09/30/2025	S	1	FS334-1'		3								X	2.6			on Sample
0950	09/30/2025	S	1	FS335-1'		4								X	2.8			# 30 for
1530	09/30/2025	S	1	FS342-1'		5								X	3.4			CL,
1533	09/30/2025	S	1	FS343-1'		6								X	1.9			10/9/25
1515	09/30/2025	S	1	FS345-1'		7								X	1.8			CW
1204	09/30/2025	S	1	FS346-1'		8								X	2.1			
1510	09/30/2025	S	1	FS352-1'		9								X	2.0			
1512	09/30/2025	S	1	FS353-1'		10								X	2.4			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																		
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<i>Higinio Gonzalez</i>		10-01-25	1010	<i>Michelle Gonzalez</i>		10-1-25	1010											
<i>Michelle Gonzalez</i>		10-1-25	1445	<i>Marissa Gonzalez</i>		10-1-25	1445											
<i>Marissa Gonzalez</i>		10-1-25	1900	<i>Andrew Musso</i>		10-1-25	1900											
<i>Andrew Musso</i>		10-1-25	2345	<i>Carli Mar</i>		10-2-25	800											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
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Chain of Custody

Page 2 of 3

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Matador				Company: Ensolum LLC		Lab WO# <u>E510014</u>		Job Number <u>23003-0002</u>		1D	2D	3D	Std	NM	CO	UT	TX	
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy										X				
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: <u>agiovengo@ensolum.com</u>														
Phone: 575-988-0055				Miscellaneous:														
Email: <u>agiovengo@ensolum.com</u>																		
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	TCED 1005 - TX	RCRA 8 Metals	BIGDOC - NM	BIGDOC - TX	SDWA	CWA	RCRA	
1332	09/30/2025	S	1	FS354-1'		11								X				
1212	09/30/2025	S	1	FS355-1'		12								X				
1230	09/30/2025	S	1	FS356-1'		13								X				
1328	09/30/2025	S	1	FS369-1'		14								X				
1330	09/30/2025	S	1	FS370-1'		15								X				
1210	09/30/2025	S	1	FS371-1'		16								X				
1205	09/30/2025	S	1	FS372-1'		17								X				
1250	09/30/2025	S	1	FS378-1'		18								X				
0945	09/30/2025	S	1	FS379-1'		19								X				
1047	09/30/2025	S	1	FS380-1'		20								X				
Additional Instructions: Please CC: <u>cburton@ensolum.com</u> , <u>agiovengo@ensolum.com</u> , <u>iestrella@ensolum.com</u> , <u>chamilton@ensolum.com</u> , <u>bmoir@ensolum.com</u>																		
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<u>Michelle Gonzalez</u>		<u>10-01-25</u>	<u>1010</u>	<u>Michelle Gonzalez</u>		<u>10-1-25</u>	<u>1010</u>											
<u>Michelle Gonzalez</u>		<u>10-1-25</u>	<u>1445</u>	<u>Montessa Gonzalez</u>		<u>10-1-25</u>	<u>1445</u>											
<u>Montessa Gonzalez</u>		<u>10-1-25</u>	<u>1900</u>	<u>Andrew Musso</u>		<u>10-1-25</u>	<u>1900</u>											
<u>Andrew Musso</u>		<u>10-1-25</u>	<u>2345</u>	<u>Carla Mar</u>		<u>10-2-25</u>	<u>800</u>											
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Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510014	2303-0002				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																
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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	3000 Chloride	TCEQ 1005 - TX	RCRA 8 Metals	BCDOC - NM	BCDOC - TX	SDWA	CWA	RCRA		
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp			Remarks
1410	09/30/2025	S	1	FS387-1'		21								X			2.4			Client
1405	09/30/2025	S	1	FS388-1'		22								X			2.2			reg return
0944	09/30/2025	S	1	FS389-1'		23								X			1.8			on Sample
1420	09/30/2025	S	1	FS394-1'		24								X			1.8			#30 for
1421	09/30/2025	S	1	FS402-1'		25								X			2.0			CL
0900	09/30/2025	S	1	SW05- 0-0.5'		26								X			2.6			10/9/25
0830	09/30/2025	S	1	SW06- 0-0.5'		27								X			3.6			CM
0833	09/30/2025	S	1	SW07- 0-0.5'		28								X			3.0			
0834	09/30/2025	S	1	SW08- 0-0.5'		29								X			3.2			
1300	09/30/2025	S	1	SW09- 0-1'		30				X				X			2.8			
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Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E510034

Job Number: 23003-0002

Received: 10/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/9/25

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: 10/9/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E510034
Date Received: 10/3/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2025 7:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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FS99-5'	15
FS100-5'	16
FS101-5'	17
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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Dr. Ireland State 16 139 Well Pad

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

10/09/25 08:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS89-5'	E510034-01A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS90-5'	E510034-02A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS92-5'	E510034-03A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS93-5'	E510034-04A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS94-5'	E510034-05A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS95-5'	E510034-06A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS96-5'	E510034-07A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS97-5'	E510034-08A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS98-5'	E510034-09A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS99-5'	E510034-10A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS100-5'	E510034-11A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS101-5'	E510034-12A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS384-1'	E510034-13A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS385-1'	E510034-14A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS386-1'	E510034-15A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS391-1'	E510034-16A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS392-1'	E510034-17A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS397-1'	E510034-18A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS398-1'	E510034-19A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS399-1'	E510034-20A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS400-1'	E510034-21A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS401-1'	E510034-22A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS403-1'	E510034-23A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS404-1'	E510034-24A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS405-1'	E510034-25A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
FS406-1'	E510034-26A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
SW14- 0-4'	E510034-27A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.
SW15- 0-4'	E510034-28A	Soil	10/01/25	10/03/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS89-5'

E510034-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>96.5 %</i>	<i>70-130</i>		<i>10/03/25</i>	<i>10/04/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>93.4 %</i>	<i>70-130</i>		<i>10/03/25</i>	<i>10/04/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>	<i>112 %</i>	<i>61-141</i>		<i>10/03/25</i>	<i>10/03/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	308	200	10	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS90-5'

E510034-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	109 %	61-141		10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	235	20.0	1	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS92-5'

E510034-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540135
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540135
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540125
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	113 %	61-141		10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2540130
Chloride	317	100	5	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS93-5'

E510034-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	107 %	61-141		10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	135	20.0	1	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS94-5'

E510034-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	107 %	61-141		10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	110	20.0	1	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS95-5'

E510034-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	112 %	61-141		10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	315	40.0	2	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS96-5'

E510034-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL		Batch: 2540135
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.8 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2540135
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: HM		Batch: 2540125
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: IY		Batch: 2540130
Chloride	82.6	20.0	1	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS97-5'

E510034-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.6 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	147	20.0	1	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS98-5'

E510034-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/03/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/03/25	
Toluene	ND	0.0250	1	10/03/25	10/03/25	
o-Xylene	ND	0.0250	1	10/03/25	10/03/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/03/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		10/03/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		10/03/25	10/03/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	114 %	61-141		10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	453	200	10	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS99-5'

E510034-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.2 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	105	20.0	1	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS100-5'

E510034-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	97.5	20.0	1	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS101-5'

E510034-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	102	20.0	1	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS384-1'

E510034-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540135
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540135
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.2 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540125
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2540130
Chloride	ND	200	10	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS385-1'

E510034-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	246	200	10	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS386-1'

E510034-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540135
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540135
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540125
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
	99.5 %	61-141		10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2540130
Chloride	ND	200	10	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS391-1'

E510034-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.5 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	221	200	10	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS392-1'

E510034-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540135
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.1 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540135
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.4 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540125
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2540130
Chloride	321	200	10	10/03/25	10/03/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS397-1'

E510034-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540135
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540135
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540125
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2540130
Chloride	ND	200	10	10/03/25	10/04/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS398-1'

E510034-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540135
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540135
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.4 %	70-130	10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540125
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2540130
Chloride	209	200	10	10/03/25	10/04/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS399-1'

E510034-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540125	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2540130	
Chloride	ND	200	10	10/03/25	10/04/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS400-1'

E510034-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/03/25	
<i>Surrogate: n-Nonane</i>						
	97.2 %	61-141		10/03/25	10/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	224	100	5	10/03/25	10/04/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS401-1'

E510034-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/07/25	
Ethylbenzene	0.0268	0.0250	1	10/03/25	10/07/25	
Toluene	ND	0.0250	1	10/03/25	10/07/25	
o-Xylene	ND	0.0250	1	10/03/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/03/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	10/03/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>		95.7 %	61-141	10/03/25	10/04/25	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: TP		Batch: 2540128
Chloride	296	40.0	2	10/03/25	10/04/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS403-1'

E510034-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/06/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/06/25	
Toluene	ND	0.0250	1	10/03/25	10/06/25	
o-Xylene	ND	0.0250	1	10/03/25	10/06/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/06/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		10/03/25	10/06/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		10/03/25	10/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	206	200	10	10/03/25	10/04/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS404-1'

E510034-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/04/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/04/25	
Toluene	ND	0.0250	1	10/03/25	10/04/25	
o-Xylene	ND	0.0250	1	10/03/25	10/04/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/04/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		10/03/25	10/04/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	245	200	10	10/03/25	10/04/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS405-1'

E510034-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/06/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/06/25	
Toluene	ND	0.0250	1	10/03/25	10/06/25	
o-Xylene	ND	0.0250	1	10/03/25	10/06/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/06/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		10/03/25	10/06/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		10/03/25	10/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
	102 %	61-141		10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	210	200	10	10/03/25	10/04/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

FS406-1'

E510034-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/06/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/06/25	
Toluene	ND	0.0250	1	10/03/25	10/06/25	
o-Xylene	ND	0.0250	1	10/03/25	10/06/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/06/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.1 %	70-130	10/03/25	10/06/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	10/03/25	10/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	ND	200	10	10/03/25	10/04/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

SW14- 0-4'

E510034-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540134	
Benzene	ND	0.0250	1	10/03/25	10/06/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/06/25	
Toluene	ND	0.0250	1	10/03/25	10/06/25	
o-Xylene	ND	0.0250	1	10/03/25	10/06/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/06/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		10/03/25	10/06/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2540134	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		10/03/25	10/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2540126	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2540128	
Chloride	229	40.0	2	10/03/25	10/04/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2025 8:39:37AM

SW15- 0-4'

E510034-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Benzene	ND	0.0250	1	10/03/25	10/06/25	
Ethylbenzene	ND	0.0250	1	10/03/25	10/06/25	
Toluene	ND	0.0250	1	10/03/25	10/06/25	
o-Xylene	ND	0.0250	1	10/03/25	10/06/25	
p,m-Xylene	ND	0.0500	1	10/03/25	10/06/25	
Total Xylenes	ND	0.0250	1	10/03/25	10/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		10/03/25	10/06/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2540134
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/25	10/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		10/03/25	10/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2540126
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/25	10/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/25	10/04/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		10/03/25	10/04/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2540128
Chloride	162	20.0	1	10/03/25	10/04/25	



Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2025 8:39:37AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540134-BLK1) Prepared: 10/03/25 Analyzed: 10/06/25

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	7.78		8.00		97.2	70-130			

LCS (2540134-BS1) Prepared: 10/03/25 Analyzed: 10/04/25

Benzene	4.63	0.0250	5.00		92.5	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.75	0.0250	5.00		94.9	70-130			
o-Xylene	4.77	0.0250	5.00		95.4	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.4	0.0250	15.0		96.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

Matrix Spike (2540134-MS1) Source: E510034-24 Prepared: 10/03/25 Analyzed: 10/04/25

Benzene	4.63	0.0250	5.00	ND	92.6	70-130			
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	70-130			
Toluene	4.74	0.0250	5.00	ND	94.8	70-130			
o-Xylene	4.78	0.0250	5.00	ND	95.7	70-130			
p,m-Xylene	9.62	0.0500	10.0	ND	96.2	70-130			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

Matrix Spike Dup (2540134-MSD1) Source: E510034-24 Prepared: 10/03/25 Analyzed: 10/04/25

Benzene	4.91	0.0250	5.00	ND	98.2	70-130	5.88	27	
Ethylbenzene	5.06	0.0250	5.00	ND	101	70-130	6.46	26	
Toluene	5.04	0.0250	5.00	ND	101	70-130	6.05	20	
o-Xylene	5.08	0.0250	5.00	ND	102	70-130	5.93	25	
p,m-Xylene	10.2	0.0500	10.0	ND	102	70-130	6.36	23	
Total Xylenes	15.3	0.0250	15.0	ND	102	70-130	6.22	26	
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.8	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2025 8:39:37AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540135-BLK1)

Prepared: 10/03/25 Analyzed: 10/03/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.4	70-130			

LCS (2540135-BS1)

Prepared: 10/03/25 Analyzed: 10/03/25

Benzene	5.34	0.0250	5.00		107	70-130			
Ethylbenzene	5.31	0.0250	5.00		106	70-130			
Toluene	5.33	0.0250	5.00		107	70-130			
o-Xylene	5.27	0.0250	5.00		105	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
Total Xylenes	16.0	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

Matrix Spike (2540135-MS1)

Source: E510034-09

Prepared: 10/03/25 Analyzed: 10/03/25

Benzene	5.69	0.0250	5.00	ND	114	70-130			
Ethylbenzene	5.64	0.0250	5.00	ND	113	70-130			
Toluene	5.69	0.0250	5.00	ND	114	70-130			
o-Xylene	5.67	0.0250	5.00	ND	113	70-130			
p,m-Xylene	11.4	0.0500	10.0	ND	114	70-130			
Total Xylenes	17.1	0.0250	15.0	ND	114	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130			

Matrix Spike Dup (2540135-MSD1)

Source: E510034-09

Prepared: 10/03/25 Analyzed: 10/03/25

Benzene	5.39	0.0250	5.00	ND	108	70-130	5.41	27	
Ethylbenzene	5.38	0.0250	5.00	ND	108	70-130	4.59	26	
Toluene	5.39	0.0250	5.00	ND	108	70-130	5.36	20	
o-Xylene	5.34	0.0250	5.00	ND	107	70-130	6.05	25	
p,m-Xylene	10.9	0.0500	10.0	ND	109	70-130	4.63	23	
Total Xylenes	16.2	0.0250	15.0	ND	108	70-130	5.10	26	
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2025 8:39:37AM

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
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Blank (2540134-BLK1) Prepared: 10/03/25 Analyzed: 10/06/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.78		8.00		110	70-130			

LCS (2540134-BS2) Prepared: 10/03/25 Analyzed: 10/04/25

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		8.00		106	70-130			

Matrix Spike (2540134-MS2) Source: E510034-24 Prepared: 10/03/25 Analyzed: 10/04/25

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.60		8.00		107	70-130			

Matrix Spike Dup (2540134-MSD2) Source: E510034-24 Prepared: 10/03/25 Analyzed: 10/04/25

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0	ND	101	70-130	1.57	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.89		8.00		111	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2025 8:39:37AM

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
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Blank (2540135-BLK1) Prepared: 10/03/25 Analyzed: 10/03/25

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

LCS (2540135-BS2) Prepared: 10/03/25 Analyzed: 10/03/25

Gasoline Range Organics (C6-C10)	55.5	20.0	50.0		111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			

Matrix Spike (2540135-MS2) Source: E510034-09 Prepared: 10/03/25 Analyzed: 10/03/25

Gasoline Range Organics (C6-C10)	59.4	20.0	50.0	ND	119	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			

Matrix Spike Dup (2540135-MSD2) Source: E510034-09 Prepared: 10/03/25 Analyzed: 10/04/25

Gasoline Range Organics (C6-C10)	60.9	20.0	50.0	ND	122	70-130	2.51	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		93.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2025 8:39:37AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540125-BLK1)					Prepared: 10/03/25 Analyzed: 10/03/25				
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 (2540125-BS1)					Prepared: 10/03/25 Analyzed: 10/03/25				
Diesel Range Organics (C10-C28)	259	25.0	250		104	66-144			
Surrogate: n-Nonane	52.9		50.0		106	61-141			

Matrix Spike (2540125-MS1)					Source: E510034-15		Prepared: 10/03/25 Analyzed: 10/03/25		
Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	56-156			
Surrogate: n-Nonane	53.7		50.0		107	61-141			

Matrix Spike Dup (2540125-MSD1)					Source: E510034-15		Prepared: 10/03/25 Analyzed: 10/03/25		
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	56-156	1.86	20	
Surrogate: n-Nonane	52.7		50.0		105	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2025 8:39:37AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540126-BLK1)					Prepared: 10/03/25 Analyzed: 10/03/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.2		50.0		98.4	61-141			

LCS (2540126-BS1)					Prepared: 10/03/25 Analyzed: 10/03/25				
Diesel Range Organics (C10-C28)	258	25.0	250		103	66-144			
Surrogate: n-Nonane	48.3		50.0		96.7	61-141			

Matrix Spike (2540126-MS1)					Source: E510033-06		Prepared: 10/03/25 Analyzed: 10/03/25		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156			
Surrogate: n-Nonane	50.2		50.0		100	61-141			

Matrix Spike Dup (2540126-MSD1)					Source: E510033-06		Prepared: 10/03/25 Analyzed: 10/03/25		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	56-156	1.48	20	
Surrogate: n-Nonane	51.0		50.0		102	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2025 8:39:37AM

Anions by EPA 300.0/9056A

Analyst: TP

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

Blank (2540128-BLK1)					Prepared: 10/03/25 Analyzed: 10/03/25				
Chloride	ND	20.0							
LCS (2540128-BS1)					Prepared: 10/03/25 Analyzed: 10/03/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2540128-MS1)					Source: E510032-03		Prepared: 10/03/25 Analyzed: 10/03/25		
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2540128-MSD1)					Source: E510032-03		Prepared: 10/03/25 Analyzed: 10/03/25		
Chloride	257	20.0	250	ND	103	80-120	0.873	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2025 8:39:37AM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2540130-BLK1)					Prepared: 10/03/25 Analyzed: 10/03/25				
Chloride	ND	20.0							
LCS (2540130-BS1)					Prepared: 10/03/25 Analyzed: 10/03/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2540130-MS1)					Source: E510034-08		Prepared: 10/03/25 Analyzed: 10/03/25		
Chloride	398	20.0	250	147	100	80-120			
Matrix Spike Dup (2540130-MSD1)					Source: E510034-08		Prepared: 10/03/25 Analyzed: 10/03/25		
Chloride	393	20.0	250	147	98.4	80-120	1.25	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/09/25 08:39

- 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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E51034	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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCED 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
1138	10/01/2025	S	1	FS89-5'		1							X		2.5			
1105	10/01/2025	S	1	FS90-5'		2							X		2.4			
1024	10/01/2025	S	1	FS92-5'		3							X		2.4			
0926	10/01/2025	S	1	FS93-5'		4							X		4.9			
0925	10/01/2025	S	1	FS94-5'		5							X		3.9			
1025	10/01/2025	S	1	FS95-5'		6							X		3.5			
1104	10/01/2025	S	1	FS96-5'		7							X		4.9			
1102	10/01/2025	S	1	FS97-5'		8							X		3.9			
1100	10/01/2025	S	1	FS98-5'		9							X		3.6			
0920	10/01/2025	S	1	FS99-5'		10							X		3.8			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Higinio Gonzalez																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed 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.																		

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510034	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	TEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
0921	10/01/2025	S	1	FS100-5'		11							X					
0923	10/01/2025	S	1	FS101-5'		12							X					
1519	10/01/2025	S	1	FS384-1'		13							X					
1525	10/01/2025	S	1	FS385-1'		14							X					
1518	10/01/2025	S	1	FS386-1'		15							X					
1230	10/01/2025	S	1	FS391-1'		16							X					
1255	10/01/2025	S	1	FS392-1'		17							X					
1154	10/01/2025	S	1	FS397-1'		18							X					
1257	10/01/2025	S	1	FS398-1'		19							X					
1152	10/01/2025	S	1	FS399-1'		20							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: Higinio Gonzalez																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed 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																		
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Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510034	23008-002				x	X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
0835	10/01/2025	S	1	FS400-1'		21							X		4.7			
1253	10/01/2025	S	1	FS401-1'		22							X		3.1			
1302	10/01/2025	S	1	FS403-1'		23							X		3.1			
1252	10/01/2025	S	1	FS404-1'		24							X		4.7			
0840	10/01/2025	S	1	FS405-1'		25							X		5.2			
1300	10/01/2025	S	1	FS406-1'		26							X		5.0			
1114	10/01/2025	S	1	SW14- 0-4'		27							X		5.2			
1120	10/01/2025	S	1	SW15- 0-4'		28							X		4.7			
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: Higinio Gonzalez																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: (Y) N												
<i>[Signature]</i>	10-02-25	1000	<i>Michelle Gonzalez</i>	10-2-25	1000													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time													
<i>Michelle Gonzalez</i>	10-2-25	1500	<i>Marissa Gonzalez</i>	10-2-25	1500													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time													
<i>Marissa Gonzalez</i>	10-2-25	1900	<i>Andrew Musso</i>	10-2-25	1900													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time													
<i>Andrew Musso</i>	10-2-25	2330	<i>Caitlynn</i>	10-3-25	700													
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: 10/3/2025 9:41:11AM

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:	10/03/25 07:00	Work Order ID:	E510034
Phone:	(972) 371-5200	Date Logged In:	10/02/25 15:36	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/09/25 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

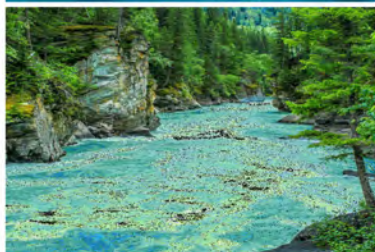
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E510055

Job Number: 23003-0002

Received: 10/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/10/25

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: 10/10/25

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



Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E510055
Date Received: 10/6/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/6/2025 8:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad 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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/25 15:32
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS217-3'	E510055-01A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS224-3'	E510055-02A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS225-3'	E510055-03A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS226-3'	E510055-04A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS230-3'	E510055-05A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS232-3'	E510055-06A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS233-3'	E510055-07A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS234-3'	E510055-08A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS235-3'	E510055-09A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS236-3'	E510055-10A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS244-3'	E510055-11A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS245-3'	E510055-12A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS246-3'	E510055-13A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS247-3'	E510055-14A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS248-3'	E510055-15A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS249-3'	E510055-16A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS250-3'	E510055-17A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS251-3'	E510055-18A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS252-3'	E510055-19A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS255-3'	E510055-20A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS256-3'	E510055-21A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS257-3'	E510055-22A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS258-3'	E510055-23A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS259-3'	E510055-24A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS260-3'	E510055-25A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS262-3'	E510055-26A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS263-3'	E510055-27A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS264-3'	E510055-28A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS265-3'	E510055-29A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS266-3'	E510055-30A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS267-3'	E510055-31A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS268-3'	E510055-32A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS269-3'	E510055-33A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS272-3'	E510055-34A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS273-3'	E510055-35A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS274-3'	E510055-36A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS275-3'	E510055-37A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS276-3'	E510055-38A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS277-3'	E510055-39A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS278-3'	E510055-40A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.



Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/25 15:32
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS279-3'	E510055-41A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS382-1'	E510055-42A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS383-1'	E510055-43A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS283-3'	E510055-44A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS284-3'	E510055-45A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS285-3'	E510055-46A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS288-3'	E510055-47A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS292-3'	E510055-48A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS344-1'	E510055-49A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS350-1'	E510055-50A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS351-1'	E510055-51A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS366-1'	E510055-52A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS367-1'	E510055-53A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS368-1'	E510055-54A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS375-1'	E510055-55A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS376-1'	E510055-56A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS377-1'	E510055-57A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
FS393-1'	E510055-58A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
SW09 0-1'	E510055-59A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
SW10 0-2'	E510055-60A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
SW11 0-2'	E510055-61A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
SW12 0-2'	E510055-62A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.
SW13 0-1'	E510055-63A	Soil	10/02/25	10/06/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS217-3'

E510055-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	ND	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS224-3'

E510055-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		115 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541056
Chloride	ND	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS225-3'

E510055-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		114 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541056
Chloride	ND	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS226-3'

E510055-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		114 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	189	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS230-3'

E510055-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		113 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		98.3 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	222	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS232-3'

E510055-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		115 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		99.3 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541056
Chloride	236	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS233-3'

E510055-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		111 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		99.0 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541056
Chloride	286	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS234-3'

E510055-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		116 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	ND	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS235-3'

E510055-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	ND	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS236-3'

E510055-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		113 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	ND	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS244-3'

E510055-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		113 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	151	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS245-3'

E510055-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		113 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	27.4	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	236	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS246-3'

E510055-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		115 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		97.9 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541056
Chloride	ND	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS247-3'

E510055-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		114 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541056
Chloride	ND	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS248-3'

E510055-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541021
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		111 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		97.5 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541056
Chloride	ND	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS249-3'

E510055-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		114 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		98.2 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	266	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS250-3'

E510055-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		113 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	ND	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS251-3'

E510055-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		113 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>		99.5 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	280	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS252-3'

E510055-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		114 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>		100 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	ND	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS255-3'

E510055-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2541021	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		113 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541056	
Chloride	ND	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS256-3'

E510055-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.7 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		113 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	120	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS257-3'

E510055-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.5 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	25.6	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	279	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS258-3'

E510055-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	ND	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS259-3'

E510055-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.8 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		118 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	269	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS260-3'

E510055-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	250	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS262-3'

E510055-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.8 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		116 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	167	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS263-3'

E510055-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.0 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		114 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	224	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS264-3'

E510055-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.2 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		112 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	83.5	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS265-3'

E510055-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2541025
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2541025
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.1 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541074
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541061
Chloride	70.3	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS266-3'

E510055-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		113 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.0 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	28.4	25.0	1	10/07/25	10/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/07/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	10/07/25	10/07/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	260	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS267-3'

E510055-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	ND	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS268-3'

E510055-32

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.5 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		112 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	95.3	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS269-3'

E510055-33

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	233	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS272-3'

E510055-34

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		113 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.6 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	156	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS273-3'

E510055-35

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.3 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		113 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	195	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS274-3'

E510055-36

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.2 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	55.8	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS275-3'

E510055-37

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.0 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	ND	100	5	10/07/25	10/07/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2025 3:32:36PM
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FS276-3'

E510055-38

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.4 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		119 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	ND	200	10	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS277-3'

E510055-39

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.5 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	ND	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS278-3'

E510055-40

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541025	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.0 %	70-130	10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541039	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541061	
Chloride	256	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS279-3'

E510055-41

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	89.6 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	295	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS382-1'

E510055-42

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	93.5 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	153	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS383-1'

E510055-43

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.5 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	95.4 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	160	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS283-3'

E510055-44

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	95.1 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	257	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS284-3'

E510055-45

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	89.1 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	56.0	20.0	1	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS285-3'

E510055-46

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.8 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	91.1 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	ND	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS288-3'

E510055-47

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.8 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.2 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>	88.6 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	94.3	20.0	1	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS292-3'

E510055-48

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	90.2 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	190	20.0	1	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS344-1'

E510055-49

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.7 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	90.8 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	193	20.0	1	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS350-1'

E510055-50

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>94.8 %</i>	<i>70-130</i>		<i>10/06/25</i>	<i>10/08/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>96.8 %</i>	<i>70-130</i>		<i>10/06/25</i>	<i>10/08/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>	<i>93.4 %</i>	<i>61-141</i>		<i>10/07/25</i>	<i>10/08/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	148	20.0	1	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS351-1'

E510055-51

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	91.4 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	287	40.0	2	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS366-1'

E510055-52

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	96.9 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	165	100	5	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS367-1'

E510055-53

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2541026
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2541026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.1 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2541040
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	93.2 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2541062
Chloride	131	100	5	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS368-1'

E510055-54

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.8 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	96.6 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	165	20.0	1	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS375-1'

E510055-55

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	90.6 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	153	100	5	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS376-1'

E510055-56

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.2 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.0 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>	92.2 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	156	100	5	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS377-1'

E510055-57

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	94.0 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	148	100	5	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

FS393-1'

E510055-58

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2541026
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2541026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2541040
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	91.4 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2541062
Chloride	331	100	5	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

SW09 0-1'

E510055-59

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2541026
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2541026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2541040
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	93.8 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2541062
Chloride	ND	200	10	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

SW10 0-2'

E510055-60

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Benzene	ND	0.0250	1	10/06/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/08/25	
Toluene	ND	0.0250	1	10/06/25	10/08/25	
o-Xylene	ND	0.0250	1	10/06/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541026	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		10/06/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541040	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	90.6 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541062	
Chloride	ND	100	5	10/07/25	10/08/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

SW11 0-2'

E510055-61

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541018	
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541041	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		10/07/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541063	
Chloride	ND	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

SW12 0-2'

E510055-62

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541018	
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.6 %	70-130		10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541041	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		10/07/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541063	
Chloride	ND	100	5	10/07/25	10/07/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/10/2025 3:32:36PM

SW13 0-1'

E510055-63

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541018	
Benzene	ND	0.0250	1	10/06/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/06/25	10/07/25	
Toluene	ND	0.0250	1	10/06/25	10/07/25	
o-Xylene	ND	0.0250	1	10/06/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/06/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/06/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		10/06/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541041	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	99.1 %	61-141		10/07/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541063	
Chloride	ND	200	10	10/07/25	10/07/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541018-BLK1)

Prepared: 10/06/25 Analyzed: 10/06/25

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	7.37		8.00		92.2	70-130			

LCS (2541018-BS1)

Prepared: 10/06/25 Analyzed: 10/06/25

Benzene	3.82	0.0250	5.00		76.3	70-130			
Ethylbenzene	3.70	0.0250	5.00		74.1	70-130			
Toluene	3.77	0.0250	5.00		75.4	70-130			
o-Xylene	3.77	0.0250	5.00		75.4	70-130			
p,m-Xylene	7.53	0.0500	10.0		75.3	70-130			
Total Xylenes	11.3	0.0250	15.0		75.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2541018-MS1)

Source: E510045-05

Prepared: 10/06/25 Analyzed: 10/06/25

Benzene	4.28	0.0250	5.00	ND	85.6	70-130			
Ethylbenzene	4.17	0.0250	5.00	ND	83.4	70-130			
Toluene	4.24	0.0250	5.00	ND	84.9	70-130			
o-Xylene	4.23	0.0250	5.00	ND	84.6	70-130			
p,m-Xylene	8.44	0.0500	10.0	ND	84.4	70-130			
Total Xylenes	12.7	0.0250	15.0	ND	84.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

Matrix Spike Dup (2541018-MSD1)

Source: E510045-05

Prepared: 10/06/25 Analyzed: 10/06/25

Benzene	4.55	0.0250	5.00	ND	91.0	70-130	6.10	27	
Ethylbenzene	4.42	0.0250	5.00	ND	88.4	70-130	5.81	26	
Toluene	4.49	0.0250	5.00	ND	89.8	70-130	5.66	20	
o-Xylene	4.47	0.0250	5.00	ND	89.4	70-130	5.56	25	
p,m-Xylene	8.94	0.0500	10.0	ND	89.4	70-130	5.75	23	
Total Xylenes	13.4	0.0250	15.0	ND	89.4	70-130	5.68	26	
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.8	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2025 3:32:36PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541021-BLK1)

Prepared: 10/06/25 Analyzed: 10/07/25

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	8.09		8.00		101	70-130			

LCS (2541021-BS1)

Prepared: 10/06/25 Analyzed: 10/07/25

Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	5.18	0.0250	5.00		104	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.23	0.0250	5.00		105	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.13		8.00		102	70-130			

Matrix Spike (2541021-MS1)

Source: E510055-05

Prepared: 10/06/25 Analyzed: 10/07/25

Benzene	4.40	0.0250	5.00	ND	87.9	70-130			
Ethylbenzene	4.36	0.0250	5.00	ND	87.3	70-130			
Toluene	4.41	0.0250	5.00	ND	88.1	70-130			
o-Xylene	4.47	0.0250	5.00	ND	89.4	70-130			
p,m-Xylene	8.89	0.0500	10.0	ND	88.9	70-130			
Total Xylenes	13.4	0.0250	15.0	ND	89.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

Matrix Spike Dup (2541021-MSD1)

Source: E510055-05

Prepared: 10/06/25 Analyzed: 10/07/25

Benzene	4.99	0.0250	5.00	ND	99.8	70-130	12.6	27	
Ethylbenzene	4.97	0.0250	5.00	ND	99.4	70-130	13.0	26	
Toluene	5.01	0.0250	5.00	ND	100	70-130	12.7	20	
o-Xylene	5.00	0.0250	5.00	ND	99.9	70-130	11.2	25	
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130	12.4	23	
Total Xylenes	15.1	0.0250	15.0	ND	100	70-130	12.0	26	
Surrogate: 4-Bromochlorobenzene-PID	8.20		8.00		103	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541025-BLK1)

Prepared: 10/06/25 Analyzed: 10/07/25

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	8.91		8.00		111	70-130			

LCS (2541025-BS1)

Prepared: 10/06/25 Analyzed: 10/07/25

Benzene	4.92	0.0250	5.00		98.4	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.0	70-130			
Toluene	4.91	0.0250	5.00		98.1	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.74		8.00		109	70-130			

Matrix Spike (2541025-MS1)

Source: E510055-25

Prepared: 10/06/25 Analyzed: 10/07/25

Benzene	5.25	0.0250	5.00	ND	105	70-130			
Ethylbenzene	5.27	0.0250	5.00	ND	105	70-130			
Toluene	5.24	0.0250	5.00	ND	105	70-130			
o-Xylene	5.31	0.0250	5.00	ND	106	70-130			
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130			
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.64		8.00		108	70-130			

Matrix Spike Dup (2541025-MSD1)

Source: E510055-25

Prepared: 10/06/25 Analyzed: 10/08/25

Benzene	4.69	0.0250	5.00	ND	93.7	70-130	11.4	27	
Ethylbenzene	4.72	0.0250	5.00	ND	94.4	70-130	11.0	26	
Toluene	4.68	0.0250	5.00	ND	93.7	70-130	11.1	20	
o-Xylene	4.79	0.0250	5.00	ND	95.8	70-130	10.4	25	
p,m-Xylene	9.57	0.0500	10.0	ND	95.7	70-130	10.8	23	
Total Xylenes	14.4	0.0250	15.0	ND	95.8	70-130	10.6	26	
Surrogate: 4-Bromochlorobenzene-PID	9.09		8.00		114	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541026-BLK1)

Prepared: 10/06/25 Analyzed: 10/07/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.7	70-130			

LCS (2541026-BS1)

Prepared: 10/06/25 Analyzed: 10/08/25

Benzene	4.42	0.0250	5.00		88.4	70-130			
Ethylbenzene	4.29	0.0250	5.00		85.8	70-130			
Toluene	4.37	0.0250	5.00		87.4	70-130			
o-Xylene	4.33	0.0250	5.00		86.6	70-130			
p,m-Xylene	8.70	0.0500	10.0		87.0	70-130			
Total Xylenes	13.0	0.0250	15.0		86.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.2	70-130			

Matrix Spike (2541026-MS1)

Source: E510055-49

Prepared: 10/06/25 Analyzed: 10/08/25

Benzene	5.07	0.0250	5.00	ND	101	70-130			
Ethylbenzene	4.92	0.0250	5.00	ND	98.4	70-130			
Toluene	5.02	0.0250	5.00	ND	100	70-130			
o-Xylene	4.97	0.0250	5.00	ND	99.4	70-130			
p,m-Xylene	9.93	0.0500	10.0	ND	99.3	70-130			
Total Xylenes	14.9	0.0250	15.0	ND	99.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.8	70-130			

Matrix Spike Dup (2541026-MSD1)

Source: E510055-49

Prepared: 10/06/25 Analyzed: 10/08/25

Benzene	5.03	0.0250	5.00	ND	101	70-130	0.859	27	
Ethylbenzene	4.87	0.0250	5.00	ND	97.4	70-130	1.02	26	
Toluene	4.96	0.0250	5.00	ND	99.3	70-130	1.02	20	
o-Xylene	4.93	0.0250	5.00	ND	98.6	70-130	0.771	25	
p,m-Xylene	9.82	0.0500	10.0	ND	98.2	70-130	1.10	23	
Total Xylenes	14.8	0.0250	15.0	ND	98.3	70-130	0.993	26	
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541018-BLK1)					Prepared: 10/06/25 Analyzed: 10/06/25				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			
LCS (2541018-BS2)					Prepared: 10/06/25 Analyzed: 10/06/25				
Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			
Matrix Spike (2541018-MS2)					Source: E510045-05		Prepared: 10/06/25 Analyzed: 10/06/25		
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			
Matrix Spike Dup (2541018-MSD2)					Source: E510045-05		Prepared: 10/06/25 Analyzed: 10/07/25		
Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130	1.99	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

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
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Blank (2541021-BLK1) Prepared: 10/06/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.97		8.00		112	70-130			

LCS (2541021-BS2) Prepared: 10/06/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.04		8.00		113	70-130			

Matrix Spike (2541021-MS2) Source: E510055-05 Prepared: 10/06/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.35		8.00		117	70-130			

Matrix Spike Dup (2541021-MSD2) Source: E510055-05 Prepared: 10/06/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.2	70-130	5.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.00		8.00		112	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541025-BLK1) Prepared: 10/06/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			

LCS (2541025-BS2) Prepared: 10/06/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	54.4	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

Matrix Spike (2541025-MS2) Source: E510055-25 Prepared: 10/06/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			

Matrix Spike Dup (2541025-MSD2) Source: E510055-25 Prepared: 10/06/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130	3.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541026-BLK1) Prepared: 10/06/25 Analyzed: 10/07/25

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

LCS (2541026-BS2) Prepared: 10/06/25 Analyzed: 10/08/25

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

Matrix Spike (2541026-MS2) Source: E510055-49 Prepared: 10/06/25 Analyzed: 10/08/25

Gasoline Range Organics (C6-C10)	58.4	20.0	50.0	ND	117	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.8	70-130			

Matrix Spike Dup (2541026-MSD2) Source: E510055-49 Prepared: 10/06/25 Analyzed: 10/08/25

Gasoline Range Organics (C6-C10)	52.1	20.0	50.0	ND	104	70-130	11.5	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

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
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Blank (2541038-BLK1)					Prepared: 10/07/25 Analyzed: 10/07/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.8		50.0		102	61-141			

LCS (2541038-BS1)					Prepared: 10/07/25 Analyzed: 10/07/25				
Diesel Range Organics (C10-C28)	260	25.0	250		104	66-144			
Surrogate: n-Nonane	49.0		50.0		98.0	61-141			

Matrix Spike (2541038-MS1)				Source: E510055-03		Prepared: 10/07/25 Analyzed: 10/07/25			
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	56-156			
Surrogate: n-Nonane	50.9		50.0		102	61-141			

Matrix Spike Dup (2541038-MSD1)				Source: E510055-03		Prepared: 10/07/25 Analyzed: 10/07/25			
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	56-156	0.505	20	
Surrogate: n-Nonane	50.3		50.0		101	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

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
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Blank (2541039-BLK1)					Prepared: 10/07/25 Analyzed: 10/07/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.2		50.0		106	61-141			

LCS (2541039-BS1)					Prepared: 10/07/25 Analyzed: 10/07/25				
Diesel Range Organics (C10-C28)	267	25.0	250		107	66-144			
Surrogate: n-Nonane	53.6		50.0		107	61-141			

Matrix Spike (2541039-MS1)					Source: E510055-24		Prepared: 10/07/25 Analyzed: 10/07/25		
Diesel Range Organics (C10-C28)	313	25.0	250	ND	125	56-156			
Surrogate: n-Nonane	61.4		50.0		123	61-141			

Matrix Spike Dup (2541039-MSD1)					Source: E510055-24		Prepared: 10/07/25 Analyzed: 10/07/25		
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	56-156	9.63	20	
Surrogate: n-Nonane	56.0		50.0		112	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541040-BLK1)					Prepared: 10/07/25 Analyzed: 10/08/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.6		50.0		87.2	61-141			

LCS (2541040-BS1)					Prepared: 10/07/25 Analyzed: 10/08/25				
Diesel Range Organics (C10-C28)	272	25.0	250		109	66-144			
Surrogate: n-Nonane	46.6		50.0		93.1	61-141			

Matrix Spike (2541040-MS1)					Source: E510055-45		Prepared: 10/07/25 Analyzed: 10/08/25		
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	56-156			
Surrogate: n-Nonane	45.2		50.0		90.5	61-141			

Matrix Spike Dup (2541040-MSD1)					Source: E510055-45		Prepared: 10/07/25 Analyzed: 10/08/25		
Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	56-156	0.725	20	
Surrogate: n-Nonane	45.4		50.0		90.8	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541041-BLK1)					Prepared: 10/07/25 Analyzed: 10/09/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.9		50.0		97.8	61-141			

LCS (2541041-BS1)					Prepared: 10/07/25 Analyzed: 10/08/25				
Diesel Range Organics (C10-C28)	262	25.0	250		105	66-144			
Surrogate: n-Nonane	49.2		50.0		98.4	61-141			

Matrix Spike (2541041-MS1)					Source: E510056-06		Prepared: 10/07/25 Analyzed: 10/08/25		
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	56-156			
Surrogate: n-Nonane	47.9		50.0		95.8	61-141			

Matrix Spike Dup (2541041-MSD1)					Source: E510056-06		Prepared: 10/07/25 Analyzed: 10/08/25		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156	1.28	20	
Surrogate: n-Nonane	48.5		50.0		97.0	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

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
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Blank (2541074-BLK1)					Prepared: 10/08/25 Analyzed: 10/08/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.5		50.0		99.1	61-141			

LCS (2541074-BS1)					Prepared: 10/08/25 Analyzed: 10/08/25				
Diesel Range Organics (C10-C28)	258	25.0	250		103	66-144			
Surrogate: n-Nonane	50.4		50.0		101	61-141			

Matrix Spike (2541074-MS1)					Source: E510074-09		Prepared: 10/08/25 Analyzed: 10/08/25		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156			
Surrogate: n-Nonane	51.8		50.0		104	61-141			

Matrix Spike Dup (2541074-MSD1)					Source: E510074-09		Prepared: 10/08/25 Analyzed: 10/08/25		
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	56-156	3.99	20	
Surrogate: n-Nonane	53.7		50.0		107	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/10/2025 3:32:36PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541056-BLK1)						Prepared: 10/07/25 Analyzed: 10/07/25			
Chloride	ND	20.0							
LCS (2541056-BS1)						Prepared: 10/07/25 Analyzed: 10/07/25			
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2541056-MS1)				Source: E510055-10		Prepared: 10/07/25 Analyzed: 10/07/25			
Chloride	279	200	250	ND	111	80-120			
Matrix Spike Dup (2541056-MSD1)				Source: E510055-10		Prepared: 10/07/25 Analyzed: 10/07/25			
Chloride	291	200	250	ND	117	80-120	4.40	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541061-BLK1)					Prepared: 10/07/25 Analyzed: 10/07/25				
Chloride	ND	20.0							
LCS (2541061-BS1)					Prepared: 10/07/25 Analyzed: 10/07/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2541061-MS1)					Source: E510055-23		Prepared: 10/07/25 Analyzed: 10/07/25		
Chloride	336	200	250	ND	134	80-120			M5
Matrix Spike Dup (2541061-MSD1)					Source: E510055-23		Prepared: 10/07/25 Analyzed: 10/07/25		
Chloride	341	200	250	ND	136	80-120	1.36	20	M5



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541062-BLK1)					Prepared: 10/07/25 Analyzed: 10/07/25				
Chloride	ND	20.0							
LCS (2541062-BS1)					Prepared: 10/07/25 Analyzed: 10/07/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2541062-MS1)					Source: E510055-45		Prepared: 10/07/25 Analyzed: 10/07/25		
Chloride	335	20.0	250	56.0	112	80-120			
Matrix Spike Dup (2541062-MSD1)					Source: E510055-45		Prepared: 10/07/25 Analyzed: 10/07/25		
Chloride	318	20.0	250	56.0	105	80-120	5.25	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/2025 3:32:36PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541063-BLK1)					Prepared: 10/07/25 Analyzed: 10/07/25				
Chloride	ND	20.0							
LCS (2541063-BS1)					Prepared: 10/07/25 Analyzed: 10/07/25				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2541063-MS1)					Source: E510057-03		Prepared: 10/07/25 Analyzed: 10/07/25		
Chloride	257	20.0	250	ND	103	80-120			
Matrix Spike Dup (2541063-MSD1)					Source: E510057-03		Prepared: 10/07/25 Analyzed: 10/07/25		
Chloride	258	20.0	250	ND	103	80-120	0.264	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/10/25 15:32

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated 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

FS10055 on 10/6/25

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy				FS1055		23003-0002					x	X			
Project Manager: Ashley Gioveno				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agioveno@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agioveno@ensolum.com																			

Sample Information										Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Field	Filter	Lab Number		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
																		Compliance	Y	or	N	
																		PWSID #				
																		Sample Temp			Remarks	
1615	10/02/2025	S	1	FS 217	- 3'			1									X				2.6	
1202	10/02/2025	S	1	FS 224	- 3'			2									X				2.2	
1007	10/02/2025	S	1	FS 225	- 3'			3									X				2.4	
0942	10/02/2025	S	1	FS 226	- 3'			4									X				1.6	
0929	10/02/2025	S	1	FS 230	- 3'			5									X				1.8	
1200	10/02/2025	S	1	FS 232	- 3'			6									X				2.0	
1204	10/02/2025	S	1	FS 233	- 3'			7									X				3.2	
1006	10/02/2025	S	1	FS 234	- 3'			8									X				2.6	
0941	10/02/2025	S	1	FS 235	- 3'			9									X				2.8	
0943	10/02/2025	S	1	FS 236	- 3'			10									X				3.4	

Additional Instructions: Please CC: cburton@ensolum.com, agioveno@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: Higinio Gonzalez, Eric Plugge

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
<i>[Signature]</i>	10-3-25	1030	<i>Michelle Gonzales</i>	10-3-25	1030	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gonzales</i>	10-3-25	1430	<i>Nathan Samyolo</i>	10-3-25	1430	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Nathan Samyolo</i>	10-3-25	1902	<i>Andrew Musso</i>	10-6-25	1100	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Andrew Musso</i>	10-6-25	2000	<i>Caitlynn</i>	10-6-25	800	
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.

ES10055 CM 10/1/25

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador				Company: Ensolum LLC		Lab WO#		Job Number				1D	2D	3D	Std			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E10		2393-0002							x			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8250	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
1349	10/02/2025	S	1	FS 244 - 3'		11							X		2.4			
1350	10/02/2025	S	1	FS 245 - 3'		12							X		3.6			
1328	10/02/2025	S	1	FS 246 - 3'		13							X		3.2			
1228	10/02/2025	S	1	FS 247 - 3'		14							X		3.0			
1227	10/02/2025	S	1	FS 248 - 3'		15							X		1.8			
1205	10/02/2025	S	1	FS 249 - 3'		16							X		2.2			
1003	10/02/2025	S	1	FS 250 - 3'		17							X		2.0			
0940	10/02/2025	S	1	FS 251 - 3'		18							X		1.6			
0949	10/02/2025	S	1	FS 252 - 3'		19							X		2.4			
0950	10/02/2025	S	1	FS 255 - 3'		20							X		2.6			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Higinio Gonzalez, Eric Plugge																		
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										
<i>Michelle Gonzalez</i>		10-03-25	1030	<i>Michelle Gonzalez</i>		10-3-25	1030											
<i>Michelle Gonzalez</i>		10-3-25	1430	<i>Nathan Gonzalez</i>		10-3-25	1430											
<i>Nathan Gonzalez</i>		10-3-25	1902	<i>Andrew Musso</i>		10-3-25	1900											
<i>Andrew Musso</i>		10-3-25	2000	<i>Caitlin Allen</i>		10-6-25	800											
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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		EE10055	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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
1347	10/02/2025	S	1	FS 256 - 3'		21							X		2.8			
1352	10/02/2025	S	1	FS 257 - 3'		22							X		3.2			
1330	10/02/2025	S	1	FS 258 - 3'		23							X		3.4			
1000	10/02/2025	S	1	FS 259 - 3'		24							X		3.0			
1001	10/02/2025	S	1	FS 260 - 3'		25							X		2.6			
1400	10/02/2025	S	1	FS 262 - 3'		26							X		2.4			
1402	10/02/2025	S	1	FS 263 - 3'		27							X		3.0			
1406	10/02/2025	S	1	FS 264 - 3'		28							X		2.8			
1407	10/02/2025	S	1	FS 265 - 3'		29							X		3.2			
1354	10/02/2025	S	1	FS 266 - 3'		30							X		3.0			
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: Higinio Gonzalez, Eric Plugge																		
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: ☒ 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.																		

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510055	2303-0072				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 8250	TCEQ 1005 - TX	RCRA 8 Metals	BIGDOC - NM	BIGDOC - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
1334	10/02/2025	S	1	FS 267 - 3'		31							X		2.8			
0916	10/02/2025	S	1	FS 268 - 3'		32							X		2.0			
0918	10/02/2025	S	1	FS 269 - 3'		33							X		2.10			
1401	10/02/2025	S	1	FS 272 - 3'		34							X		1.8			
1359	10/02/2025	S	1	FS 273 - 3'		35							X		2.4			
1420	10/02/2025	S	1	FS 274 - 3'		36							X		2.0			
1336	10/02/2025	S	1	FS 275 - 3'		37							X		3.0			
1332	10/02/2025	S	1	FS 276 - 3'		38							X		3.2			
1340	10/02/2025	S	1	FS 277 - 3'		39							X		2.6			
0931	10/02/2025	S	1	FS 278 - 3'		40							X		2.8			
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: Higinio Gonzalez, Eric Plugg																		
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>CY</u> 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.																		

Client Information				Invoice Information		Lab Use Only				TAT				State			
Client: Matador				Company: Ensolum LLC		Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E51055		23080002					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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA
															Compliance	Y	or N
															PWSID #		
															Sample Temp		Remarks
0916	10/02/2025	S	1	FS 279 - 3'		41							X		3.4		
0834	10/02/2025	S	1	FS 382 - 1'		42							X		3.2		
0833	10/02/2025	S	1	FS 383 - 1'		43							X		3.0		
1405	10/02/2025	S	1	FS 283 - 3'		44							X		2.1		
1421	10/02/2025	S	1	FS 284 - 3'		45							X		2.8		
1327	10/02/2025	S	1	FS 285 - 3'		46							X		3.6		
1422	10/02/2025	S	1	FS 288 - 3'		47							X		3.2		
0915	10/02/2025	S	1	FS 292 - 3'		48							X		2.8		
0913	10/02/2025	S	1	FS 344 - 1'		49							X		2.0		
0913	10/02/2025	S	1	FS 350 - 1'		50							X		2.4		
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Higinio Gonzalez, Eric Plugge																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.									
Michelle Gonzalez		10-3-25	1030	Michelle Gonzalez		10-3-25	1030										
Michelle Gonzalez		10-3-25	1430	Michelle Gonzalez		10-3-25	1430										
Andreus Musso		10-3-25	1402	Andreus Musso		10-3-25	1400										
Andreus Musso		10-3-25	1400	Caitlynn		10-6-25	800										
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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E61055	2303-002				x	X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method						EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
0912	10/02/2025	S	1	FS 351 -1'		51							X		3.6			
0837	10/02/2025	S	1	FS 366 -1'		52							X		3.0			
0838	10/02/2025	S	1	FS 367 -1'		53							X		3.2			
0910	10/02/2025	S	1	FS 368 -1'		54							X		3.4			
0839	10/02/2025	S	1	FS 375 -1'		55							X		1.2			
0835	10/02/2025	S	1	FS 376 -1'		56							X		1.8			
0841	10/02/2025	S	1	FS 377 -1'		57							X		1.4			
0832	10/02/2025	S	1	FS 393 -1'		58							X		2.0			
1400	10/02/2025	S	1	SW 09 0-1'		59							X		2.6			
1240	10/02/2025	S	1	SW 10 0-2'		60							X		3.0			
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: Higinio Gonzalez, Eric Plugge																		
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										
Michelle Gonzales		10-03-25	1030	Michelle Gonzales		10-3-25	1030											
Michelle Gonzales		10-3-25	1430	Michelle Gonzales		10-3-25	1430											
Matthew Gonzales		10-3-25	1402	Andrew Musso		10-3-25	1400											
Andrew Musso		10-3-25	2400	Caitlin Mar		10-6-25	800											
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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E516055	23003-002				x	X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method						EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1241	10/02/2025	S	1	SW11 0-2'		U01							X					
1245	10/02/2025	S	1	SW12 0-2'		U02							X					
1405	10/02/2025	S	1	SW13 0-1'		U03							X					
	10/02/2025	S	1										X					
	10/02/2025	S	1										X					
	10/02/2025	S	1										X					
	10/02/2025	S	1										X					
	10/02/2025	S	1										X					
	10/02/2025	S	1										X					
	10/02/2025	S	1										X					
	10/02/2025	S	1										X					
	10/02/2025	S	1										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: Higinio Gonzalez, Eric Plugge																		
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										
		10-03-25	1030			10-3-25	1030											
		10-3-25	1430			10-3-25	1430											
		10-3-25	1902			10-3-25	1900											
		10-3-25	2000			10-3-25	800											
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: 10/6/2025 11:00:48AM

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:	10/06/25 08:00	Work Order ID:	E510055
Phone:	(972) 371-5200	Date Logged In:	10/03/25 17:05	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/10/25 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

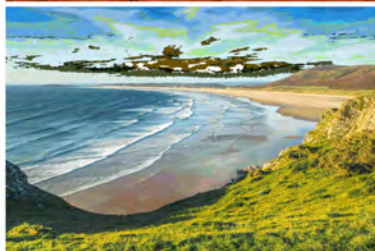
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr.Ireland State Well Pad

Work Order: E510064

Job Number: 23003-0002

Received: 10/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/13/25

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: 10/13/25



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

Project Name: Dr.Ireland State Well Pad
Workorder: E510064
Date Received: 10/7/2025 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/7/2025 6:30:00AM, under the Project Name: Dr.Ireland State Well Pad.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/25 10:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS112-11'	E510064-01A	Soil	10/03/25	10/07/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr.Ireland State Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/13/2025 10:20:08AM
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FS112-11'

E510064-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541047	
Benzene	ND	0.0250	1	10/07/25	10/07/25	
Ethylbenzene	ND	0.0250	1	10/07/25	10/07/25	
Toluene	ND	0.0250	1	10/07/25	10/07/25	
o-Xylene	ND	0.0250	1	10/07/25	10/07/25	
p,m-Xylene	ND	0.0500	1	10/07/25	10/07/25	
Total Xylenes	ND	0.0250	1	10/07/25	10/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.4 %	70-130	10/07/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/25	10/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	10/07/25	10/07/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2541041	
Diesel Range Organics (C10-C28)	134	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>		99.9 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541063	
Chloride	463	200	10	10/07/25	10/08/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/2025 10:20:08AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541047-BLK1)

Prepared: 10/07/25 Analyzed: 10/07/25

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	7.51		8.00		93.8	70-130			

LCS (2541047-BS1)

Prepared: 10/07/25 Analyzed: 10/07/25

Benzene	4.44	0.0250	5.00		88.7	70-130			
Ethylbenzene	4.30	0.0250	5.00		85.9	70-130			
Toluene	4.36	0.0250	5.00		87.3	70-130			
o-Xylene	4.32	0.0250	5.00		86.5	70-130			
p,m-Xylene	8.71	0.0500	10.0		87.1	70-130			
Total Xylenes	13.0	0.0250	15.0		86.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			

Matrix Spike (2541047-MS1)

Source: E510049-08

Prepared: 10/07/25 Analyzed: 10/07/25

Benzene	5.04	0.0250	5.00	ND	101	70-130			
Ethylbenzene	5.05	0.0250	5.00	0.175	97.5	70-130			
Toluene	5.00	0.0250	5.00	0.0498	99.1	70-130			
o-Xylene	5.50	0.0250	5.00	0.611	97.7	70-130			
p,m-Xylene	10.5	0.0500	10.0	0.721	97.5	70-130			
Total Xylenes	16.0	0.0250	15.0	1.33	97.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.63		8.00		108	70-130			

Matrix Spike Dup (2541047-MSD1)

Source: E510049-08

Prepared: 10/07/25 Analyzed: 10/07/25

Benzene	5.30	0.0250	5.00	ND	106	70-130	4.92	27	
Ethylbenzene	5.31	0.0250	5.00	0.175	103	70-130	4.98	26	
Toluene	5.26	0.0250	5.00	0.0498	104	70-130	5.08	20	
o-Xylene	5.77	0.0250	5.00	0.611	103	70-130	4.95	25	
p,m-Xylene	11.0	0.0500	10.0	0.721	103	70-130	4.80	23	
Total Xylenes	16.8	0.0250	15.0	1.33	103	70-130	4.85	26	
Surrogate: 4-Bromochlorobenzene-PID	8.64		8.00		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/2025 10:20:08AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541047-BLK1) Prepared: 10/07/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

LCS (2541047-BS2) Prepared: 10/07/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	55.3	20.0	50.0		111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike (2541047-MS2) Source: E510049-08 Prepared: 10/07/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	85.5	20.0	50.0	30.3	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

Matrix Spike Dup (2541047-MSD2) Source: E510049-08 Prepared: 10/07/25 Analyzed: 10/07/25

Gasoline Range Organics (C6-C10)	84.9	20.0	50.0	30.3	109	70-130	0.732	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/2025 10:20:08AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541041-BLK1)					Prepared: 10/07/25 Analyzed: 10/09/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.9		50.0		97.8	61-141			

LCS (2541041-BS1)					Prepared: 10/07/25 Analyzed: 10/08/25				
Diesel Range Organics (C10-C28)	262	25.0	250		105	66-144			
Surrogate: n-Nonane	49.2		50.0		98.4	61-141			

Matrix Spike (2541041-MS1)					Source: E510056-06		Prepared: 10/07/25 Analyzed: 10/08/25		
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	56-156			
Surrogate: n-Nonane	47.9		50.0		95.8	61-141			

Matrix Spike Dup (2541041-MSD1)					Source: E510056-06		Prepared: 10/07/25 Analyzed: 10/08/25		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156	1.28	20	
Surrogate: n-Nonane	48.5		50.0		97.0	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/2025 10:20:08AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541063-BLK1)						Prepared: 10/07/25 Analyzed: 10/07/25			
Chloride	ND	20.0							
LCS (2541063-BS1)						Prepared: 10/07/25 Analyzed: 10/07/25			
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2541063-MS1)				Source: E510057-03		Prepared: 10/07/25 Analyzed: 10/07/25			
Chloride	257	20.0	250	ND	103	80-120			
Matrix Spike Dup (2541063-MSD1)				Source: E510057-03		Prepared: 10/07/25 Analyzed: 10/07/25			
Chloride	258	20.0	250	ND	103	80-120	0.264	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:	Dr.Ireland State Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/25 10:20

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: Dr. Ireland State Well Pad				Address: 3122 National Parks Hwy		E510064	23008.0002				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/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	
1313	10/3/2025	S	1	FS112 - 11'		1									X				
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, ihinkle@ensolum.com, eplugge@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>Jarad McCauley</u>																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <u>(Y) N</u>											
Michelle Gonzales		10-6-25	7:00	Michelle Gonzales		10-6-25	0700												
Michelle Gonzales		10-6-25	1530	Marissa Gonzales		10-6-25	1530												
Marissa Gonzales		10-6-25	2020	Andrew Musso		10-6-25	2020												
Andrew Musso		10-7-25	0100	Noe Soto		10-7-25	0630												
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: 10/7/2025 9:33:32AM

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:	10/07/25 06:30	Work Order ID:	E510064
Phone:	(972) 371-5200	Date Logged In:	10/06/25 16:05	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/13/25 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: Dr.Ireland State Well Pad

Work Order: E510065

Job Number: 23003-0002

Received: 10/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/13/25

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: 10/13/25



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

Project Name: Dr.Ireland State Well Pad
Workorder: E510065
Date Received: 10/7/2025 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/7/2025 6:30:00AM, under the Project Name: Dr.Ireland State Well Pad.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/25 10:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS118-11'	E510065-01A	Soil	10/03/25	10/07/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr.Ireland State Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/13/2025 10:23:14AM
---	---	---

FS118-11'

E510065-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541050	
Benzene	ND	0.0250	1	10/07/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/07/25	10/08/25	
Toluene	ND	0.0250	1	10/07/25	10/08/25	
o-Xylene	ND	0.0250	1	10/07/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/07/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/07/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/07/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.4 %	70-130	10/07/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2541041	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541063	
Chloride	129	40.0	2	10/07/25	10/08/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/2025 10:23:14AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541050-BLK1)

Prepared: 10/07/25 Analyzed: 10/08/25

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	9.06		8.00		113	70-130			

LCS (2541050-BS1)

Prepared: 10/07/25 Analyzed: 10/08/25

Benzene	4.72	0.0250	5.00		94.3	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.1	70-130			
Toluene	4.69	0.0250	5.00		93.8	70-130			
o-Xylene	4.80	0.0250	5.00		96.1	70-130			
p,m-Xylene	9.52	0.0500	10.0		95.2	70-130			
Total Xylenes	14.3	0.0250	15.0		95.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.06		8.00		113	70-130			

Matrix Spike (2541050-MS1)

Source: E510066-01

Prepared: 10/07/25 Analyzed: 10/08/25

Benzene	4.62	0.0250	5.00	ND	92.3	70-130			
Ethylbenzene	4.61	0.0250	5.00	ND	92.1	70-130			
Toluene	4.59	0.0250	5.00	ND	91.8	70-130			
o-Xylene	4.69	0.0250	5.00	ND	93.8	70-130			
p,m-Xylene	9.34	0.0500	10.0	ND	93.4	70-130			
Total Xylenes	14.0	0.0250	15.0	ND	93.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.14		8.00		114	70-130			

Matrix Spike Dup (2541050-MSD1)

Source: E510066-01

Prepared: 10/07/25 Analyzed: 10/08/25

Benzene	4.83	0.0250	5.00	ND	96.6	70-130	4.45	27	
Ethylbenzene	4.82	0.0250	5.00	ND	96.5	70-130	4.60	26	
Toluene	4.80	0.0250	5.00	ND	96.1	70-130	4.55	20	
o-Xylene	4.91	0.0250	5.00	ND	98.1	70-130	4.47	25	
p,m-Xylene	9.77	0.0500	10.0	ND	97.7	70-130	4.51	23	
Total Xylenes	14.7	0.0250	15.0	ND	97.8	70-130	4.49	26	
Surrogate: 4-Bromochlorobenzene-PID	9.14		8.00		114	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/2025 10:23:14AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541050-BLK1) Prepared: 10/07/25 Analyzed: 10/08/25

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

LCS (2541050-BS2) Prepared: 10/07/25 Analyzed: 10/08/25

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

Matrix Spike (2541050-MS2) Source: E510066-01 Prepared: 10/07/25 Analyzed: 10/08/25

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike Dup (2541050-MSD2) Source: E510066-01 Prepared: 10/07/25 Analyzed: 10/08/25

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.7	70-130	1.59	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/2025 10:23:14AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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

Blank (2541041-BLK1)

Prepared: 10/07/25 Analyzed: 10/09/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.9		50.0		97.8	61-141			

LCS (2541041-BS1)

Prepared: 10/07/25 Analyzed: 10/08/25

Diesel Range Organics (C10-C28)	262	25.0	250		105	66-144			
Surrogate: <i>n</i> -Nonane	49.2		50.0		98.4	61-141			

Matrix Spike (2541041-MS1)

Source: E510056-06

Prepared: 10/07/25 Analyzed: 10/08/25

Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	56-156			
Surrogate: <i>n</i> -Nonane	47.9		50.0		95.8	61-141			

Matrix Spike Dup (2541041-MSD1)

Source: E510056-06

Prepared: 10/07/25 Analyzed: 10/08/25

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156	1.28	20	
Surrogate: <i>n</i> -Nonane	48.5		50.0		97.0	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/2025 10:23:14AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541063-BLK1)						Prepared: 10/07/25 Analyzed: 10/07/25			
Chloride	ND	20.0							
LCS (2541063-BS1)						Prepared: 10/07/25 Analyzed: 10/07/25			
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2541063-MS1)				Source: E510057-03		Prepared: 10/07/25 Analyzed: 10/07/25			
Chloride	257	20.0	250	ND	103	80-120			
Matrix Spike Dup (2541063-MSD1)				Source: E510057-03		Prepared: 10/07/25 Analyzed: 10/07/25			
Chloride	258	20.0	250	ND	103	80-120	0.264	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:	Dr.Ireland State Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/25 10:23

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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: Dr. Ireland State Well Pad				Address: 3122 National Parks Hwy				FS10065		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	TCEQ 1006 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1301	10/3/2025	S	1	FS118 - 11'		1								X		2.2			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, imccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, jhinkle@ensolum.com, enlugge@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: Jarad McCauley																			
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			
Michelle Gonzales				10-6-25		7:00		Michelle Gonzales				10-6-25		0700					
Marissa Gonzales				10-6-25		1530		Marissa Gonzales				10-6-25		1530					
Andrew Musso				10-6-25		2020		Andrew Musso				10-6-25		2020					
Andrew Musso				10-7-25		0600		Nae Sab				10-7-25		0630					
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: 10/7/2025 9:35:42AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	10/07/25 06:30	Work Order ID:	E510065
Phone:	(972) 371-5200	Date Logged In:	10/06/25 16:07	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	10/13/25 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: Dr.Ireland State Well Pad

Work Order: E510066

Job Number: 23003-0002

Received: 10/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/13/25

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: 10/13/25

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



Project Name: Dr.Ireland State Well Pad
Workorder: E510066
Date Received: 10/7/2025 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/7/2025 6:30:00AM, under the Project Name: Dr.Ireland State Well Pad.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Sample Summary

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported: 10/13/25 10:27
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS122-11'	E510066-01A	Soil	10/03/25	10/07/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr.Ireland State Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/13/2025 10:27:43AM
---	---	---

FS122-11'

E510066-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541050	
Benzene	ND	0.0250	1	10/07/25	10/08/25	
Ethylbenzene	ND	0.0250	1	10/07/25	10/08/25	
Toluene	ND	0.0250	1	10/07/25	10/08/25	
o-Xylene	ND	0.0250	1	10/07/25	10/08/25	
p,m-Xylene	ND	0.0500	1	10/07/25	10/08/25	
Total Xylenes	ND	0.0250	1	10/07/25	10/08/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/07/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/25	10/08/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %	70-130	10/07/25	10/08/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2541041	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/25	10/08/25	
<i>Surrogate: n-Nonane</i>		95.7 %	61-141	10/07/25	10/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541066	
Chloride	449	200	10	10/07/25	10/08/25	



Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/2025 10:27:43AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541050-BLK1)Prepared: 10/07/25 Analyzed: 10/08/25

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	9.06		8.00		113	70-130			

LCS (2541050-BS1)Prepared: 10/07/25 Analyzed: 10/08/25

Benzene	4.72	0.0250	5.00		94.3	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.1	70-130			
Toluene	4.69	0.0250	5.00		93.8	70-130			
o-Xylene	4.80	0.0250	5.00		96.1	70-130			
p,m-Xylene	9.52	0.0500	10.0		95.2	70-130			
Total Xylenes	14.3	0.0250	15.0		95.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.06		8.00		113	70-130			

Matrix Spike (2541050-MS1)Source: E510066-01Prepared: 10/07/25 Analyzed: 10/08/25

Benzene	4.62	0.0250	5.00	ND	92.3	70-130			
Ethylbenzene	4.61	0.0250	5.00	ND	92.1	70-130			
Toluene	4.59	0.0250	5.00	ND	91.8	70-130			
o-Xylene	4.69	0.0250	5.00	ND	93.8	70-130			
p,m-Xylene	9.34	0.0500	10.0	ND	93.4	70-130			
Total Xylenes	14.0	0.0250	15.0	ND	93.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.14		8.00		114	70-130			

Matrix Spike Dup (2541050-MSD1)Source: E510066-01Prepared: 10/07/25 Analyzed: 10/08/25

Benzene	4.83	0.0250	5.00	ND	96.6	70-130	4.45	27	
Ethylbenzene	4.82	0.0250	5.00	ND	96.5	70-130	4.60	26	
Toluene	4.80	0.0250	5.00	ND	96.1	70-130	4.55	20	
o-Xylene	4.91	0.0250	5.00	ND	98.1	70-130	4.47	25	
p,m-Xylene	9.77	0.0500	10.0	ND	97.7	70-130	4.51	23	
Total Xylenes	14.7	0.0250	15.0	ND	97.8	70-130	4.49	26	
Surrogate: 4-Bromochlorobenzene-PID	9.14		8.00		114	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/2025 10:27:43AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541050-BLK1) Prepared: 10/07/25 Analyzed: 10/08/25

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

LCS (2541050-BS2) Prepared: 10/07/25 Analyzed: 10/08/25

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

Matrix Spike (2541050-MS2) Source: E510066-01 Prepared: 10/07/25 Analyzed: 10/08/25

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike Dup (2541050-MSD2) Source: E510066-01 Prepared: 10/07/25 Analyzed: 10/08/25

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.7	70-130	1.59	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr.Ireland State Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/2025 10:27:43AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541041-BLK1)					Prepared: 10/07/25 Analyzed: 10/09/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.9		50.0		97.8	61-141			

LCS (2541041-BS1)					Prepared: 10/07/25 Analyzed: 10/08/25				
Diesel Range Organics (C10-C28)	262	25.0	250		105	66-144			
Surrogate: n-Nonane	49.2		50.0		98.4	61-141			

Matrix Spike (2541041-MS1)					Source: E510056-06		Prepared: 10/07/25 Analyzed: 10/08/25		
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	56-156			
Surrogate: n-Nonane	47.9		50.0		95.8	61-141			

Matrix Spike Dup (2541041-MSD1)					Source: E510056-06		Prepared: 10/07/25 Analyzed: 10/08/25		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156	1.28	20	
Surrogate: n-Nonane	48.5		50.0		97.0	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr.Ireland State Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/13/2025 10:27:43AM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541066-BLK1)						Prepared: 10/07/25 Analyzed: 10/08/25			
Chloride	ND	20.0							
LCS (2541066-BS1)						Prepared: 10/07/25 Analyzed: 10/08/25			
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2541066-MS1)				Source: E510069-07		Prepared: 10/07/25 Analyzed: 10/08/25			
Chloride	1930	200	250	1670	105	80-120			
Matrix Spike Dup (2541066-MSD1)				Source: E510069-07		Prepared: 10/07/25 Analyzed: 10/08/25			
Chloride	1980	200	250	1670	125	80-120	2.54	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:	Dr.Ireland State Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/13/25 10:27

- 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.



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: Dr. Ireland State Well Pad				Address: 3122 National Parks Hwy				F5100466		23003-0002					X	X								
Project Manager: Ashley Giovenago				City, State, Zip: Carlsbad NM, 88220																				
Address: 3122 National Parks Hwy				Phone: 575-988-0055																				
City, State, Zip: Carlsbad NM, 88220				Email: agiovenago@ensolum.com																				
Phone: 575-988-0055				Miscellaneous:																				
Email: agiovenago@ensolum.com																								
												Analysis and Method				EPA Program								
												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	
																					Compliance	Y	or	N
																					PWSID #			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number												Sample Temp	Remarks				
1248	10/3/2025	S	1	FS122 - 11'			1											X	2.5					
Additional Instructions: Please CC: cburton@ensolum.com, agiovenago@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, ihinkle@ensolum.com, eplugge@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: Jarad McCauley																								
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: 10/7/2025 9:37:55AM

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:	10/07/25 06:30	Work Order ID:	E510066
Phone:	(972) 371-5200	Date Logged In:	10/06/25 16:08	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/13/25 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

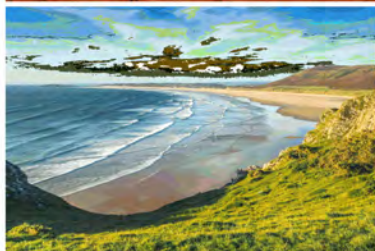
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E510088

Job Number: 23003-0002

Received: 10/8/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/14/25

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: 10/14/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E510088
Date Received: 10/8/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/8/2025 8:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Dr. Ireland State 16 139 Well Pad

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

10/14/25 16:21

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS113-11'	E510088-01A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS114-11'	E510088-02A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS115-11'	E510088-03A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS116-11'	E510088-04A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS117-11'	E510088-05A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS119-11'	E510088-06A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS120-11'	E510088-07A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS121-11'	E510088-08A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS123-11'	E510088-09A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS124-11'	E510088-10A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS125-11'	E510088-11A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS126-11'	E510088-12A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS127-11'	E510088-13A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS128-11'	E510088-14A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS129-11'	E510088-15A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS130-11'	E510088-16A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS131-11'	E510088-17A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS132-11'	E510088-18A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
FS133-11'	E510088-19A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW16-0-8'	E510088-20A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW17-0-8'	E510088-21A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW18-0-8'	E510088-22A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW19-0-5'	E510088-23A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW19-5-10'	E510088-24A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW20-0-5'	E510088-25A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW20-5-10'	E510088-26A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW21-0-6'	E510088-27A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW22-0-6'	E510088-28A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW23-0-5'	E510088-29A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW24-0-8'	E510088-30A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW25-0-8'	E510088-31A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.
SW26-0-8'	E510088-32A	Soil	10/06/25	10/08/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS113-11'

E510088-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>		91.2 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	177	40.0	2	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS114-11'

E510088-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>		95.4 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	183	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS115-11'

E510088-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	113 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	97.5 %	61-141		10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	303	40.0	2	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS116-11'

E510088-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>		89.8 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	175	20.0	1	10/09/25	10/09/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/14/2025 4:21:46PM
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FS117-11'

E510088-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
Surrogate: 4-Bromochlorobenzene-PID	113 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.2 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
Surrogate: n-Nonane	94.6 %	61-141		10/08/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	210	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS119-11'

E510088-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2541086
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2541086
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.1 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541081
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		91.9 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2541115
Chloride	69.9	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS120-11'

E510088-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.4 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		92.3 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	99.0	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS121-11'

E510088-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.6 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		91.5 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	118	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS123-11'

E510088-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.5 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		91.7 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	113	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS124-11'

E510088-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		111 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.6 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>		90.5 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	276	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS125-11'

E510088-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.1 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>		89.9 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	126	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS126-11'

E510088-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		111 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.0 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>		95.0 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	111	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS127-11'

E510088-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.2 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		92.0 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	242	20.0	1	10/09/25	10/09/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/14/2025 4:21:46PM
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FS128-11'

E510088-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
Surrogate: 4-Bromochlorobenzene-PID		111 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
Surrogate: n-Nonane		90.9 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	99.0	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS129-11'

E510088-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.1 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		91.1 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	182	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS130-11'

E510088-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.8 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>		86.8 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	163	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS131-11'

E510088-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.9 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		96.1 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	82.7	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS132-11'

E510088-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.9 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		92.7 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	84.7	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

FS133-11'

E510088-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		111 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.9 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>		87.8 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	119	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

SW16-0-8'

E510088-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Benzene	ND	0.0250	1	10/08/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/10/25	
Toluene	ND	0.0250	1	10/08/25	10/10/25	
o-Xylene	ND	0.0250	1	10/08/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541086	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.9 %	70-130	10/08/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541081	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		90.2 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541115	
Chloride	238	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

SW17-0-8'

E510088-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541080	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	97.7 %	61-141		10/08/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541117	
Chloride	288	20.0	1	10/09/25	10/09/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/14/2025 4:21:46PM
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SW18-0-8'
E510088-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541080	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/08/25	
<i>Surrogate: n-Nonane</i>						
	96.9 %	61-141		10/08/25	10/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541117	
Chloride	232	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

SW19-0-5'

E510088-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541080	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	95.9 %	61-141		10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541117	
Chloride	237	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

SW19-5-10'

E510088-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541080	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	96.6 %	61-141		10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541117	
Chloride	88.5	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

SW20-0-5'

E510088-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541080	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	97.0 %	61-141		10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541117	
Chloride	219	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

SW20-5-10'

E510088-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.0 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541080	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541117	
Chloride	91.9	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

SW21-0-6'

E510088-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.3 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541080	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		95.6 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541117	
Chloride	249	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

SW22-0-6'

E510088-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541089
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.2 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541080
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		96.0 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541117
Chloride	175	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

SW23-0-5'

E510088-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541089
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541080
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	96.1 %	61-141		10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541117
Chloride	175	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

SW24-0-8'

E510088-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541080	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	96.3 %	61-141		10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541117	
Chloride	231	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

SW25-0-8'

E510088-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.6 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541080	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	92.4 %	61-141		10/08/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541117	
Chloride	95.2	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2025 4:21:46PM

SW26-0-8'

E510088-32

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Benzene	ND	0.0250	1	10/08/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/08/25	10/09/25	
Toluene	ND	0.0250	1	10/08/25	10/09/25	
o-Xylene	ND	0.0250	1	10/08/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/08/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/08/25	10/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2541089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/25	10/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.4 %	70-130	10/08/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2541080	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/25	10/09/25	
<i>Surrogate: n-Nonane</i>		96.0 %	61-141	10/08/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541117	
Chloride	145	20.0	1	10/09/25	10/09/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 4:21:46PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541086-BLK1)

Prepared: 10/08/25 Analyzed: 10/09/25

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	9.29		8.00		116	70-130			

LCS (2541086-BS1)

Prepared: 10/08/25 Analyzed: 10/09/25

Benzene	4.81	0.0250	5.00		96.3	70-130			
Ethylbenzene	4.83	0.0250	5.00		96.5	70-130			
Toluene	4.79	0.0250	5.00		95.8	70-130			
o-Xylene	4.89	0.0250	5.00		97.9	70-130			
p,m-Xylene	9.79	0.0500	10.0		97.9	70-130			
Total Xylenes	14.7	0.0250	15.0		97.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.25		8.00		116	70-130			

Matrix Spike (2541086-MS1)

Source: E510088-01

Prepared: 10/08/25 Analyzed: 10/09/25

Benzene	4.83	0.0250	5.00	ND	96.6	70-130			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	70-130			
Toluene	4.79	0.0250	5.00	ND	95.8	70-130			
o-Xylene	4.86	0.0250	5.00	ND	97.3	70-130			
p,m-Xylene	9.76	0.0500	10.0	ND	97.6	70-130			
Total Xylenes	14.6	0.0250	15.0	ND	97.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.01		8.00		113	70-130			

Matrix Spike Dup (2541086-MSD1)

Source: E510088-01

Prepared: 10/08/25 Analyzed: 10/09/25

Benzene	4.82	0.0250	5.00	ND	96.4	70-130	0.197	27	
Ethylbenzene	4.84	0.0250	5.00	ND	96.7	70-130	0.449	26	
Toluene	4.79	0.0250	5.00	ND	95.9	70-130	0.130	20	
o-Xylene	4.90	0.0250	5.00	ND	97.9	70-130	0.698	25	
p,m-Xylene	9.83	0.0500	10.0	ND	98.3	70-130	0.672	23	
Total Xylenes	14.7	0.0250	15.0	ND	98.2	70-130	0.681	26	
Surrogate: 4-Bromochlorobenzene-PID	9.11		8.00		114	70-130			



Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 4:21:46PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541089-BLK1) Prepared: 10/08/25 Analyzed: 10/09/25

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	7.75		8.00		96.8	70-130			

LCS (2541089-BS1) Prepared: 10/08/25 Analyzed: 10/09/25

Benzene	5.14	0.0250	5.00		103	70-130			
Ethylbenzene	5.25	0.0250	5.00		105	70-130			
Toluene	5.21	0.0250	5.00		104	70-130			
o-Xylene	5.22	0.0250	5.00		104	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.8	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

Matrix Spike (2541089-MS1) Source: E510088-23 Prepared: 10/08/25 Analyzed: 10/09/25

Benzene	4.69	0.0250	5.00	ND	93.8	70-130			
Ethylbenzene	4.72	0.0250	5.00	ND	94.5	70-130			
Toluene	4.73	0.0250	5.00	ND	94.6	70-130			
o-Xylene	4.73	0.0250	5.00	ND	94.5	70-130			
p,m-Xylene	9.55	0.0500	10.0	ND	95.5	70-130			
Total Xylenes	14.3	0.0250	15.0	ND	95.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			

Matrix Spike Dup (2541089-MSD1) Source: E510088-23 Prepared: 10/08/25 Analyzed: 10/09/25

Benzene	4.85	0.0250	5.00	ND	97.0	70-130	3.37	27	
Ethylbenzene	4.91	0.0250	5.00	ND	98.3	70-130	3.97	26	
Toluene	4.89	0.0250	5.00	ND	97.8	70-130	3.41	20	
o-Xylene	4.91	0.0250	5.00	ND	98.2	70-130	3.85	25	
p,m-Xylene	9.92	0.0500	10.0	ND	99.2	70-130	3.85	23	
Total Xylenes	14.8	0.0250	15.0	ND	98.9	70-130	3.85	26	
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 4:21:46PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541086-BLK1) Prepared: 10/08/25 Analyzed: 10/09/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

LCS (2541086-BS2) Prepared: 10/08/25 Analyzed: 10/09/25

Gasoline Range Organics (C6-C10)	55.4	20.0	50.0		111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			

Matrix Spike (2541086-MS2) Source: E510088-01 Prepared: 10/08/25 Analyzed: 10/09/25

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			

Matrix Spike Dup (2541086-MSD2) Source: E510088-01 Prepared: 10/08/25 Analyzed: 10/09/25

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130	0.161	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 4:21:46PM

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
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Blank (2541089-BLK1) Prepared: 10/08/25 Analyzed: 10/09/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

LCS (2541089-BS2) Prepared: 10/08/25 Analyzed: 10/09/25

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

Matrix Spike (2541089-MS2) Source: E510088-23 Prepared: 10/08/25 Analyzed: 10/09/25

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			

Matrix Spike Dup (2541089-MSD2) Source: E510088-23 Prepared: 10/08/25 Analyzed: 10/09/25

Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130	2.13	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 4:21:46PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541080-BLK1)					Prepared: 10/08/25 Analyzed: 10/08/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.1		50.0		96.2	61-141			

LCS (2541080-BS1)					Prepared: 10/08/25 Analyzed: 10/08/25				
Diesel Range Organics (C10-C28)	256	25.0	250		102	66-144			
Surrogate: n-Nonane	49.2		50.0		98.4	61-141			

Matrix Spike (2541080-MS1)					Source: E510088-32		Prepared: 10/08/25 Analyzed: 10/08/25		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	56-156			
Surrogate: n-Nonane	49.5		50.0		99.0	61-141			

Matrix Spike Dup (2541080-MSD1)					Source: E510088-32		Prepared: 10/08/25 Analyzed: 10/08/25		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156	6.16	20	
Surrogate: n-Nonane	47.3		50.0		94.6	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 4:21:46PM

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
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Blank (2541081-BLK1)					Prepared: 10/08/25 Analyzed: 10/09/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.8		50.0		89.7	61-141			

LCS (2541081-BS1)					Prepared: 10/08/25 Analyzed: 10/09/25				
Diesel Range Organics (C10-C28)	230	25.0	250		92.2	66-144			
Surrogate: n-Nonane	45.1		50.0		90.1	61-141			

Matrix Spike (2541081-MS1)					Source: E510088-14		Prepared: 10/08/25 Analyzed: 10/09/25		
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.4	56-156			
Surrogate: n-Nonane	45.0		50.0		89.9	61-141			

Matrix Spike Dup (2541081-MSD1)					Source: E510088-14		Prepared: 10/08/25 Analyzed: 10/09/25		
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.6	56-156	7.59	20	
Surrogate: n-Nonane	48.3		50.0		96.5	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2025 4:21:46PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541115-BLK1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Chloride	ND	20.0							
LCS (2541115-BS1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2541115-MS1)					Source: E510088-04		Prepared: 10/09/25 Analyzed: 10/09/25		
Chloride	432	20.0	250	175	103	80-120			
Matrix Spike Dup (2541115-MSD1)					Source: E510088-04		Prepared: 10/09/25 Analyzed: 10/09/25		
Chloride	436	20.0	250	175	104	80-120	0.860	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/14/2025 4:21:46PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541117-BLK1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Chloride	ND	20.0							
LCS (2541117-BS1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2541117-MS1)					Source: E510088-22		Prepared: 10/09/25 Analyzed: 10/09/25		
Chloride	475	20.0	250	232	97.0	80-120			
Matrix Spike Dup (2541117-MSD1)					Source: E510088-22		Prepared: 10/09/25 Analyzed: 10/09/25		
Chloride	472	20.0	250	232	96.0	80-120	0.510	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/25 16:21

- 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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510088	23003-002				x	X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method						EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
1058	10/06/2025	S	1	FS113-11'		1							X		4.2			
1105	10/06/2025	S	1	FS114-11'		2							X		4.3			
1057	10/06/2025	S	1	FS115-11'		3							X		4.1			
1135	10/06/2025	S	1	FS116-11'		4							X		4.7			
1101	10/06/2025	S	1	FS117-11'		5							X		4.6			
1104	10/06/2025	S	1	FS119-11'		6							X		4.8			
1020	10/06/2025	S	1	FS120-11'		7							X		3.8			
1102	10/06/2025	S	1	FS121-11'		8							X		3.6			
1011	10/06/2025	S	1	FS123-11'		9							X		4.4			
1017	10/06/2025	S	1	FS124-11'		10							X		3.4			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Higinio Gonzalez																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed 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.																		

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510088	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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1015	10/06/2025	S	1	FS125-11'		11							X		4.6			
0949	10/06/2025	S	1	FS126-11'		12							X		4.5			
0948	10/06/2025	S	1	FS127-11'		13							X		4.0			
1012	10/06/2025	S	1	FS128-11'		14							X		4.2			
1014	10/06/2025	S	1	FS129-11'		15							X		3.8			
0956	10/06/2025	S	1	FS130-11'		16							X		4.2			
0952	10/06/2025	S	1	FS131-11'		17							X		3.6			
0950	10/06/2025	S	1	FS132-11'		18							X		3.4			
0955	10/06/2025	S	1	FS133-11'		19							X		3.8			
1229	10/06/2025	S	1	SW16- 0-8'		20							X		4.1			
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: Higinio Gonzalez																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <u>Y</u> N										
		10-07-25	0711	Michelle Gonzalez		10-7-25	0711											
		10-7-25	1430	Mariassa Gonzalez		10-7-25	1430											
		10-7-25	1910	Andrew Musso		10-7-25	1910											
		10-7-25	2330	Caitlin Mor		10-8-25	800											
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				Company: Ensolum LLC		Lab WO# E510088		Job Number 23013-0002		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy										X			
Project Manager: Ashlev 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	TCO 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA
1232	10/06/2025	S	1	SW17- 0-8'		21							X		4.6		
1237	10/06/2025	S	1	SW18- 0-8'		22							X		4.2		
1241	10/06/2025	S	1	SW19- 0-5'		23							X		3.6		
1215	10/06/2025	S	1	SW19- 5-10'		24							X		3.6		
1251	10/06/2025	S	1	SW20- 0-5'		25							X		3.0		
1256	10/06/2025	S	1	SW20- 5-10'		26							X		4.0		
1305	10/06/2025	S	1	SW21- 0-6'		27							X		3.8		
1308	10/06/2025	S	1	SW22- 0-6'		28							X		3.6		
1311	10/06/2025	S	1	SW23- 0-5'		29							X		3.8		
1319	10/06/2025	S	1	SW24- 0-8'		30							X		3.5		
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: Higinio Gonzalez																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: ☒ Y ☐ N									
		10-07-25	0711			10-7-25	0711										
		10-7-25	1430			10-7-25	1430										
		10-7-25	1910			10-7-25	1910										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
		10-7-25	2330			10-8-25	800										
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				Company: Ensolum LLC		Lab WO#	Lab Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510588	23053-002				X	X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TEEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1322	10/06/2025	S	1	SW25- 0-8'		31									X			
1416	10/06/2025	S	1	SW26- 0-8'		32									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: Higinio Gonzalez																		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed 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: 10/8/2025 10:08:25AM

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:	10/08/25 08:00	Work Order ID:	E510088
Phone:	(972) 371-5200	Date Logged In:	10/07/25 15:37	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/14/25 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: Dr. Ireland State 16 139 Well Pad

Work Order: E510095

Job Number: 23003-0002

Received: 10/9/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/15/25

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: 10/15/25

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



Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E510095
Date Received: 10/9/2025 3:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/9/2025 3:45:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/15/25 15:48
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-1'	E510095-01A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS02-1'	E510095-02A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS03-1'	E510095-03A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS04-1'	E510095-04A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS05-1'	E510095-05A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS06-1'	E510095-06A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS07-1'	E510095-07A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS08-1'	E510095-08A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS09-1'	E510095-09A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS10-1'	E510095-10A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS11-1'	E510095-11A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS12-1'	E510095-12A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS13-1'	E510095-13A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS14-1'	E510095-14A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS15-1'	E510095-15A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS16-1'	E510095-16A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS17-1'	E510095-17A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS18-1'	E510095-18A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS19-1'	E510095-19A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS20-1'	E510095-20A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS21-1'	E510095-21A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS22-1'	E510095-22A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS23-1'	E510095-23A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS24-1'	E510095-24A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS25-1'	E510095-25A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS26-1'	E510095-26A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS27-1'	E510095-27A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS28-1'	E510095-28A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS29-1'	E510095-29A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS74-6'	E510095-30A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS75-6'	E510095-31A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS76-6'	E510095-32A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS77-6'	E510095-33A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS78-6'	E510095-34A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS79-6'	E510095-35A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS80-6'	E510095-36A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS81-6'	E510095-37A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS82-6'	E510095-38A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS83-6'	E510095-39A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS84-6'	E510095-40A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.



Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/15/25 15:48
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS85-6'	E510095-41A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS86-6'	E510095-42A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS87-6'	E510095-43A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
FS88-6'	E510095-44A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
SW27-0-5'	E510095-45A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
SW28-0-5'	E510095-46A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
SW29-0-9'	E510095-47A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
SW30-0-9'	E510095-48A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
SW31-0-5'	E510095-49A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
SW32-0-1'	E510095-50A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
SW33-0-4'	E510095-51A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
SW34-0-4'	E510095-52A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
SW35-0-6'	E510095-53A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
SW36-0-6'	E510095-54A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
SW37-0-5'	E510095-55A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.
SW38-0-5'	E510095-56A	Soil	10/07/25	10/09/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS01-1'

E510095-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.4 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	10/09/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	301	200	10	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS02-1'

E510095-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.9 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/09/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	ND	200	10	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS03-1'

E510095-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.9 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	10/09/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	263	200	10	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS04-1'

E510095-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.3 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	10/09/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	268	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS05-1'

E510095-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	113 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	102 %	61-141		10/09/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	90.8	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS06-1'

E510095-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	10/09/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	244	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS07-1'

E510095-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		113 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	10/09/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	94.5	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS08-1'

E510095-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	10/09/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	218	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS09-1'

E510095-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		113 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.9 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	88.6	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS10-1'

E510095-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	184	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS11-1'

E510095-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		113 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	226	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS12-1'

E510095-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	237	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS13-1'

E510095-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	112 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	138	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS14-1'

E510095-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.2 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	145	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS15-1'

E510095-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.0 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	150	20.0	1	10/09/25	10/09/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS16-1'

E510095-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		111 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.9 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	141	20.0	1	10/09/25	10/09/25	



Sample Data

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5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS17-1'

E510095-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		111 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	198	20.0	1	10/09/25	10/09/25	



Sample Data

Matador Resources, LLC.
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Dallas TX, 75240

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS18-1'

E510095-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.3 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	181	20.0	1	10/09/25	10/09/25	



Sample Data

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Project Name: Dr. Ireland State 16 139 Well Pad
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Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS19-1'

E510095-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		113 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.5 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	218	20.0	1	10/09/25	10/10/25	



Sample Data

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Project Name: Dr. Ireland State 16 139 Well Pad
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Reported:
10/15/2025 3:48:37PM

FS20-1'

E510095-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541113	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.5 %	70-130	10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541107	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541124	
Chloride	106	20.0	1	10/09/25	10/10/25	



Sample Data

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Reported:
10/15/2025 3:48:37PM

FS21-1'

E510095-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.1 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		10/09/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	67.2	20.0	1	10/09/25	10/10/25	



Sample Data

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Project Name: Dr. Ireland State 16 139 Well Pad
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Reported:
10/15/2025 3:48:37PM

FS22-1'

E510095-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.9 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.2 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>	106 %	61-141		10/09/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	47.5	20.0	1	10/09/25	10/10/25	



Sample Data

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Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
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Reported:
10/15/2025 3:48:37PM

FS23-1'

E510095-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.0 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.7 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>	101 %	61-141		10/09/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	180	20.0	1	10/09/25	10/10/25	



Sample Data

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Project Name: Dr. Ireland State 16 139 Well Pad
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Reported:
10/15/2025 3:48:37PM

FS24-1'

E510095-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.3 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.5 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>	101 %	61-141		10/09/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	277	200	10	10/09/25	10/10/25	



Sample Data

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Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS25-1'

E510095-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.6 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		10/09/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	341	200	10	10/09/25	10/10/25	



Sample Data

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Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
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Reported:
10/15/2025 3:48:37PM

FS26-1'

E510095-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.2 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.7 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>	99.0 %	61-141		10/09/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	321	200	10	10/09/25	10/10/25	



Sample Data

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Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS27-1'

E510095-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/10/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/10/25	
Toluene	ND	0.0250	1	10/09/25	10/10/25	
o-Xylene	ND	0.0250	1	10/09/25	10/10/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/10/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.6 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.7 %	70-130		10/09/25	10/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>	99.0 %	61-141		10/09/25	10/09/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	326	200	10	10/09/25	10/10/25	



Sample Data

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Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS28-1'

E510095-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.7 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
<i>Surrogate: n-Nonane</i>						
	99.6 %	61-141		10/09/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	173	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS29-1'

E510095-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.3 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.0 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>	102 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	191	20.0	1	10/09/25	10/10/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/15/2025 3:48:37PM
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FS74-6'

E510095-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.8 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane	99.3 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	365	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS75-6'

E510095-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.8 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.0 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>	102 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	335	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS76-6'

E510095-32

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.1 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.5 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>	98.5 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	113	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS77-6'

E510095-33

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.2 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	134	20.0	1	10/09/25	10/10/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/15/2025 3:48:37PM
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FS78-6'

E510095-34

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
Surrogate: 4-Bromochlorobenzene-PID	97.6 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.8 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane	100 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	379	20.0	1	10/09/25	10/10/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/15/2025 3:48:37PM
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FS79-6'

E510095-35

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
Surrogate: 4-Bromochlorobenzene-PID	98.7 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.8 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane	103 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	116	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS80-6'

E510095-36

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>94.8 %</i>	<i>70-130</i>		<i>10/09/25</i>	<i>10/11/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>84.8 %</i>	<i>70-130</i>		<i>10/09/25</i>	<i>10/11/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>	<i>100 %</i>	<i>61-141</i>		<i>10/09/25</i>	<i>10/10/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	302	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS81-6'

E510095-37

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.6 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.5 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>	109 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	172	20.0	1	10/09/25	10/10/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/15/2025 3:48:37PM
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FS82-6'

E510095-38

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.2 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	128	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS83-6'

E510095-39

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.6 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	352	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS84-6'

E510095-40

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Benzene	ND	0.0250	1	10/09/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/11/25	
Toluene	ND	0.0250	1	10/09/25	10/11/25	
o-Xylene	ND	0.0250	1	10/09/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.8 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.0 %	70-130		10/09/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2541108	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
<i>Surrogate: n-Nonane</i>	102 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2541126	
Chloride	102	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS85-6'

E510095-41

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		106 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		91.5 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		94.5 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		106 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		91.5 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		94.5 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
Surrogate: n-Nonane		97.1 %	61-141	10/09/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	140	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS86-6'

E510095-42

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		94.2 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		94.2 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
Surrogate: n-Nonane		96.3 %	61-141	10/09/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	135	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS87-6'

E510095-43

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		94.3 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		94.3 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
Surrogate: n-Nonane		98.2 %	61-141	10/09/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	349	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

FS88-6'

E510095-44

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		95.6 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		95.6 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
Surrogate: n-Nonane		96.5 %	61-141	10/09/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	163	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

SW27-0-5'

E510095-45

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene	99.6 %	70-130		10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4	90.6 %	70-130		10/09/25	10/09/25	
Surrogate: Toluene-d8	94.7 %	70-130		10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene	99.6 %	70-130		10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4	90.6 %	70-130		10/09/25	10/09/25	
Surrogate: Toluene-d8	94.7 %	70-130		10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/09/25	
Surrogate: n-Nonane	96.4 %	61-141		10/09/25	10/09/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	83.4	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

SW28-0-5'

E510095-46

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		95.3 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		95.3 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane		94.4 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	95.1	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

SW29-0-9'

E510095-47

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		94.8 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		94.8 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane		93.9 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	89.3	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

SW30-0-9'

E510095-48

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		86.3 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		95.9 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		86.3 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		95.9 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane		94.8 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	87.8	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

SW31-0-5'

E510095-49

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene	99.8 %	70-130		10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4	88.4 %	70-130		10/09/25	10/09/25	
Surrogate: Toluene-d8	95.7 %	70-130		10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene	99.8 %	70-130		10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4	88.4 %	70-130		10/09/25	10/09/25	
Surrogate: Toluene-d8	95.7 %	70-130		10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane	99.3 %	61-141		10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	ND	200	10	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

SW32-0-1'

E510095-50

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		85.7 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		96.7 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		85.7 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		96.7 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane		96.5 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	149	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

SW33-0-4'

E510095-51

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		107 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		95.5 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		107 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		95.5 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane		107 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	256	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

SW34-0-4'

E510095-52

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		85.3 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		96.6 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		85.3 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		96.6 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane		99.1 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	272	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

SW35-0-6'

E510095-53

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		86.2 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		97.3 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		86.2 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		97.3 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane		96.4 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	159	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

SW36-0-6'

E510095-54

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		101 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		86.4 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		96.7 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		101 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		86.4 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		96.7 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane		97.6 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	93.2	20.0	1	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

SW37-0-5'

E510095-55

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		101 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		86.2 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		95.9 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541116
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		101 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		86.2 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		95.9 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2541109
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane		94.8 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541129
Chloride	ND	200	10	10/09/25	10/10/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/15/2025 3:48:37PM

SW38-0-5'

E510095-56

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541116	
Benzene	ND	0.0250	1	10/09/25	10/09/25	
Ethylbenzene	ND	0.0250	1	10/09/25	10/09/25	
Toluene	ND	0.0250	1	10/09/25	10/09/25	
o-Xylene	ND	0.0250	1	10/09/25	10/09/25	
p,m-Xylene	ND	0.0500	1	10/09/25	10/09/25	
Total Xylenes	ND	0.0250	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		85.3 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		95.4 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/25	10/09/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/09/25	10/09/25	
Surrogate: 1,2-Dichloroethane-d4		85.3 %	70-130	10/09/25	10/09/25	
Surrogate: Toluene-d8		95.4 %	70-130	10/09/25	10/09/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2541109	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/25	10/10/25	
Surrogate: n-Nonane		96.8 %	61-141	10/09/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2541129	
Chloride	107	20.0	1	10/09/25	10/10/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/15/2025 3:48:37PM

Volatile Organic Compounds by EPA 8260B

Analyst: SL

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

Blank (2541116-BLK1) Prepared: 10/09/25 Analyzed: 10/09/25

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	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.438		0.500		87.6	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.8	70-130			

LCS (2541116-BS1) Prepared: 10/09/25 Analyzed: 10/09/25

Benzene	2.20	0.0250	2.50		87.8	70-130			
Ethylbenzene	2.26	0.0250	2.50		90.5	70-130			
Toluene	2.16	0.0250	2.50		86.5	70-130			
o-Xylene	2.27	0.0250	2.50		90.8	70-130			
p,m-Xylene	4.61	0.0500	5.00		92.2	70-130			
Total Xylenes	6.88	0.0250	7.50		91.8	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		90.9	70-130			
Surrogate: Toluene-d8	0.480		0.500		96.0	70-130			

Matrix Spike (2541116-MS1) Source: E510095-41 Prepared: 10/09/25 Analyzed: 10/09/25

Benzene	2.20	0.0250	2.50	ND	88.0	48-131			
Ethylbenzene	2.28	0.0250	2.50	ND	91.2	45-135			
Toluene	2.18	0.0250	2.50	ND	87.1	48-130			
o-Xylene	2.29	0.0250	2.50	ND	91.5	43-135			
p,m-Xylene	4.66	0.0500	5.00	ND	93.1	43-135			
Total Xylenes	6.94	0.0250	7.50	ND	92.6	43-135			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.4	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.7	70-130			

Matrix Spike Dup (2541116-MSD1) Source: E510095-41 Prepared: 10/09/25 Analyzed: 10/09/25

Benzene	2.33	0.0250	2.50	ND	93.1	48-131	5.63	23	
Ethylbenzene	2.40	0.0250	2.50	ND	95.9	45-135	5.07	27	
Toluene	2.27	0.0250	2.50	ND	90.9	48-130	4.36	24	
o-Xylene	2.37	0.0250	2.50	ND	94.9	43-135	3.73	27	
p,m-Xylene	4.84	0.0500	5.00	ND	96.7	43-135	3.74	27	
Total Xylenes	7.21	0.0250	7.50	ND	96.1	43-135	3.74	27	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.5	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/15/2025 3:48:37PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541113-BLK1)

Prepared: 10/09/25 Analyzed: 10/10/25

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	9.10		8.00		114	70-130			

LCS (2541113-BS1)

Prepared: 10/09/25 Analyzed: 10/10/25

Benzene	4.35	0.0250	5.00		87.0	70-130			
Ethylbenzene	4.31	0.0250	5.00		86.3	70-130			
Toluene	4.30	0.0250	5.00		86.1	70-130			
o-Xylene	4.37	0.0250	5.00		87.4	70-130			
p,m-Xylene	8.75	0.0500	10.0		87.5	70-130			
Total Xylenes	13.1	0.0250	15.0		87.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.87		8.00		111	70-130			

Matrix Spike (2541113-MS1)

Source: E510095-05

Prepared: 10/09/25 Analyzed: 10/10/25

Benzene	4.72	0.0250	5.00	ND	94.4	70-130			
Ethylbenzene	4.67	0.0250	5.00	ND	93.3	70-130			
Toluene	4.67	0.0250	5.00	ND	93.4	70-130			
o-Xylene	4.74	0.0250	5.00	ND	94.8	70-130			
p,m-Xylene	9.45	0.0500	10.0	ND	94.5	70-130			
Total Xylenes	14.2	0.0250	15.0	ND	94.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.97		8.00		112	70-130			

Matrix Spike Dup (2541113-MSD1)

Source: E510095-05

Prepared: 10/09/25 Analyzed: 10/10/25

Benzene	4.73	0.0250	5.00	ND	94.7	70-130	0.243	27	
Ethylbenzene	4.71	0.0250	5.00	ND	94.2	70-130	0.977	26	
Toluene	4.70	0.0250	5.00	ND	93.9	70-130	0.595	20	
o-Xylene	4.79	0.0250	5.00	ND	95.8	70-130	1.07	25	
p,m-Xylene	9.55	0.0500	10.0	ND	95.5	70-130	1.03	23	
Total Xylenes	14.3	0.0250	15.0	ND	95.6	70-130	1.04	26	
Surrogate: 4-Bromochlorobenzene-PID	8.95		8.00		112	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/15/2025 3:48:37PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541114-BLK1)

Prepared: 10/09/25 Analyzed: 10/10/25

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	7.42		8.00		92.7	70-130			

LCS (2541114-BS1)

Prepared: 10/09/25 Analyzed: 10/10/25

Benzene	5.22	0.0250	5.00		104	70-130			
Ethylbenzene	5.12	0.0250	5.00		102	70-130			
Toluene	5.20	0.0250	5.00		104	70-130			
o-Xylene	5.18	0.0250	5.00		104	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			

Matrix Spike (2541114-MS1)

Source: E510095-25

Prepared: 10/09/25 Analyzed: 10/10/25

Benzene	5.91	0.0250	5.00	ND	118	70-130			
Ethylbenzene	5.81	0.0250	5.00	ND	116	70-130			
Toluene	5.88	0.0250	5.00	ND	118	70-130			
o-Xylene	5.83	0.0250	5.00	ND	117	70-130			
p,m-Xylene	11.8	0.0500	10.0	ND	118	70-130			
Total Xylenes	17.6	0.0250	15.0	ND	118	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130			

Matrix Spike Dup (2541114-MSD1)

Source: E510095-25

Prepared: 10/09/25 Analyzed: 10/10/25

Benzene	6.29	0.0250	5.00	ND	126	70-130	6.23	27	
Ethylbenzene	6.20	0.0250	5.00	ND	124	70-130	6.54	26	
Toluene	6.27	0.0250	5.00	ND	125	70-130	6.31	20	
o-Xylene	6.19	0.0250	5.00	ND	124	70-130	5.99	25	
p,m-Xylene	12.6	0.0500	10.0	ND	126	70-130	6.48	23	
Total Xylenes	18.8	0.0250	15.0	ND	125	70-130	6.32	26	
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/15/2025 3:48:37PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541113-BLK1) Prepared: 10/09/25 Analyzed: 10/10/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

LCS (2541113-BS2) Prepared: 10/09/25 Analyzed: 10/10/25

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			

Matrix Spike (2541113-MS2) Source: E510095-05 Prepared: 10/09/25 Analyzed: 10/10/25

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike Dup (2541113-MSD2) Source: E510095-05 Prepared: 10/09/25 Analyzed: 10/10/25

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.1	70-130	1.36	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/15/2025 3:48:37PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541114-BLK1) Prepared: 10/09/25 Analyzed: 10/10/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		87.9	70-130			

LCS (2541114-BS2) Prepared: 10/09/25 Analyzed: 10/10/25

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			

Matrix Spike (2541114-MS2) Source: E510095-25 Prepared: 10/09/25 Analyzed: 10/10/25

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		8.00		87.0	70-130			

Matrix Spike Dup (2541114-MSD2) Source: E510095-25 Prepared: 10/09/25 Analyzed: 10/10/25

Gasoline Range Organics (C6-C10)	51.6	20.0	50.0	ND	103	70-130	7.42	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/15/2025 3:48:37PM

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
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Blank (2541116-BLK1)

Prepared: 10/09/25 Analyzed: 10/09/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.438		0.500		87.6	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.8	70-130			

LCS (2541116-BS2)

Prepared: 10/09/25 Analyzed: 10/09/25

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0		91.8	70-130			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		91.0	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			

Matrix Spike (2541116-MS2)

Source: E510095-41

Prepared: 10/09/25 Analyzed: 10/09/25

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike Dup (2541116-MSD2)

Source: E510095-41

Prepared: 10/09/25 Analyzed: 10/09/25

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0	ND	103	70-130	3.88	20	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.438		0.500		87.5	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/15/2025 3:48:37PM

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
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Blank (2541107-BLK1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	61-141			

LCS (2541107-BS1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Diesel Range Organics (C10-C28)	259	25.0	250		104	66-144			
Surrogate: n-Nonane	51.2		50.0		102	61-141			

Matrix Spike (2541107-MS1)					Source: E510095-15		Prepared: 10/09/25 Analyzed: 10/09/25		
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156			
Surrogate: n-Nonane	51.5		50.0		103	61-141			

Matrix Spike Dup (2541107-MSD1)					Source: E510095-15		Prepared: 10/09/25 Analyzed: 10/09/25		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156	0.412	20	
Surrogate: n-Nonane	51.2		50.0		102	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/15/2025 3:48:37PM

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
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Blank (2541108-BLK1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.4		50.0		101	61-141			

LCS (2541108-BS1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Diesel Range Organics (C10-C28)	266	25.0	250		106	66-144			
Surrogate: n-Nonane	51.0		50.0		102	61-141			

Matrix Spike (2541108-MS1)					Source: E510095-26		Prepared: 10/09/25 Analyzed: 10/09/25		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	56-156			
Surrogate: n-Nonane	50.5		50.0		101	61-141			

Matrix Spike Dup (2541108-MSD1)					Source: E510095-26		Prepared: 10/09/25 Analyzed: 10/09/25		
Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	56-156	1.09	20	
Surrogate: n-Nonane	51.3		50.0		103	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/15/2025 3:48:37PM

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
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Blank (2541109-BLK1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.0		50.0		97.9	61-141			

LCS (2541109-BS1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Diesel Range Organics (C10-C28)	243	25.0	250		97.4	66-144			
Surrogate: n-Nonane	47.9		50.0		95.7	61-141			

Matrix Spike (2541109-MS1)					Source: E510095-48		Prepared: 10/09/25 Analyzed: 10/09/25		
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.5	56-156			
Surrogate: n-Nonane	48.0		50.0		96.0	61-141			

Matrix Spike Dup (2541109-MSD1)					Source: E510095-48		Prepared: 10/09/25 Analyzed: 10/09/25		
Diesel Range Organics (C10-C28)	245	25.0	250	ND	98.0	56-156	0.478	20	
Surrogate: n-Nonane	47.4		50.0		94.8	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/15/2025 3:48:37PM

Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541124-BLK1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Chloride	ND	20.0							
LCS (2541124-BS1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2541124-MS1)					Source: E510095-09		Prepared: 10/09/25 Analyzed: 10/09/25		
Chloride	344	20.0	250	88.6	102	80-120			
Matrix Spike Dup (2541124-MSD1)					Source: E510095-09		Prepared: 10/09/25 Analyzed: 10/09/25		
Chloride	347	20.0	250	88.6	103	80-120	0.838	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/15/2025 3:48:37PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2541126-BLK1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Chloride	ND	20.0							
LCS (2541126-BS1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2541126-MS1)					Source: E510095-25		Prepared: 10/09/25 Analyzed: 10/10/25		
Chloride	531	200	250	341	75.9	80-120			M2
Matrix Spike Dup (2541126-MSD1)					Source: E510095-25		Prepared: 10/09/25 Analyzed: 10/10/25		
Chloride	574	200	250	341	93.4	80-120	7.92	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/15/2025 3:48:37PM

Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541129-BLK1)					Prepared: 10/09/25 Analyzed: 10/09/25				
Chloride	ND	20.0							
LCS (2541129-BS1)					Prepared: 10/09/25 Analyzed: 10/10/25				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2541129-MS1)					Source: E510095-46		Prepared: 10/09/25 Analyzed: 10/10/25		
Chloride	343	20.0	250	95.1	99.3	80-120			
Matrix Spike Dup (2541129-MSD1)					Source: E510095-46		Prepared: 10/09/25 Analyzed: 10/10/25		
Chloride	341	20.0	250	95.1	98.4	80-120	0.660	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/15/25 15:48

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

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

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



Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		ES10095	23003-2002				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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCED 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
0900	10/07/2025	S	1	FS01-1'		1								X				
1032	10/07/2025	S	1	FS02-1'		2								X				
1029	10/07/2025	S	1	FS03-1'		3								X				
1320	10/07/2025	S	1	FS04-1'		4								X				
1103	10/07/2025	S	1	FS05-1'		5								X				
1322	10/07/2025	S	1	FS06-1'		6								X				
1106	10/07/2025	S	1	FS07-1'		7								X				
1322	10/07/2025	S	1	FS08-1'		8								X				
1100	10/07/2025	S	1	FS09-1'		9								X				
1323	10/07/2025	S	1	FS10-1'		10								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: Higinio Gonzalez, Eric Plugge																		
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										
Michelle Gonzalez		10-08-25	1100	Michelle Gonzalez		10-8-25	1100											
Michelle Gonzalez		10-8-25	1215	Marissa Gonzalez		10-8-25	1215											
Marissa Gonzalez		10-8-25	1715	Andrew Musso		10-8-25	1715											
Andrew Musso		10-8-25	2115	No Set		10-9-25	0345											
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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		ES10095	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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1325	10/07/2025	S	1	FS11-1'		11							X		2.4			
1323	10/07/2025	S	1	FS12-1'		12							X		2.8			
1328	10/07/2025	S	1	FS13-1'		13							X		2.9			
1327	10/07/2025	S	1	FS14-1'		14							X		3.3			
1326	10/07/2025	S	1	FS15-1'		15							X		2.9			
1329	10/07/2025	S	1	FS16-1'		16							X		3.3			
1340	10/07/2025	S	1	FS17-1'		17							X		2.3			
1341	10/07/2025	S	1	FS18-1'		18							X		2.4			
1342	10/07/2025	S	1	FS19-1'		19							X		2.1			
1347	10/07/2025	S	1	FS20-1'		20							X		3.2			
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: Higinio Gonzalez, Eric Plugge																		
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.																		

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E5100 95	23003-002				X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method						EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA
1344	10/07/2025	S	1	FS21-1'		21							X		2.5		
1346	10/07/2025	S	1	FS22-1'		22							X		2.7		
1343	10/07/2025	S	1	FS23-1'		23							X		2.8		
1448	10/07/2025	S	1	FS24-1'		24							X		2.2		
1449	10/07/2025	S	1	FS25-1'		25							X		2.0		
1450	10/07/2025	S	1	FS26-1'		26							X		2.4		
1451	10/07/2025	S	1	FS27-1'		27							X		2.6		
1415	10/07/2025	S	1	FS28-1'		28							X		2.1		
1417	10/07/2025	S	1	FS29-1		29							X		2.0		
1515	10/07/2025	S	1	FS74-6'		30							X		1.5		
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: Higinio Gonzalez, Eric Plugge																	
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									
		10-08-25	1100			10-8-25	1100										
		10-8-25	1215			10-8-25	1215										
		10-8-25	1715			10-8-25	1715										
		10-8-25	2115			10-9-25	0945										
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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510095	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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
1516	10/07/2025	S	1	FS75-6'		31							X		3.0			
1516	10/07/2025	S	1	FS76-6'		32							X		2.1			
1517	10/07/2025	S	1	FS77-6'		33							X		2.3			
1519	10/07/2025	S	1	FS78-6'		34							X		2.4			
1518	10/07/2025	S	1	FS79-6'		35							X		2.0			
1520	10/07/2025	S	1	FS80-6'		36							X		2.2			
1522	10/07/2025	S	1	FS81-6'		37							X		2.3			
1524	10/07/2025	S	1	FS82-6'		38							X		2.5			
1523	10/07/2025	S	1	FS83-6'		39							X		2.4			
1526	10/07/2025	S	1	FS84-6'		40							X		2.7			
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: Higinio Gonzalez, Eric Plugge																		
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										
Michelle Gonzalez		10-8-25	1100	Michelle Gonzalez		10-8-25	1100											
Michelle Gonzalez		10-8-25	1215	Marissa Gonzalez		10-8-25	1215											
Marissa Gonzalez		10-8-25	1715	Andrew Musso		10-8-25	1715											
Andrew Musso		10-8-25	2115	Ne Sat		10-9-25	0345											
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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510095	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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA
1531	10/07/2025	S	1	FS85-6'		41							X		2.0		
1530	10/07/2025	S	1	FS86-6'		42							X		2.3		
1529	10/07/2025	S	1	FS87-6'		43							X		2.4		
1528	10/07/2025	S	1	FS88-6'		44							X		2.5		
1145	10/07/2025	S	1	SW27- 0-5'		45							X		2.1		
1150	10/07/2025	S	1	SW28- 0-5'		46							X		2.0		
1155	10/07/2025	S	1	SW29-0-9'		47							X		1.7		
1200	10/07/2025	S	1	SW30- 0-9'		48							X		1.8		
1228	10/07/2025	S	1	SW31- 0-5'		49							X		1.7		
1500	10/07/2025	S	1	SW32- 0-1'		50							X		1.5		
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: Higinio Gonzalez, Eric Plugge																	
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									
		10-08-25	1100			10-8-25	1100										
		10-8-25	1215			10-8-25	1215										
		10-8-25	1715			10-8-25	1715										
		10-8-25	2115			10-9-25	0345										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

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Envirotech Analytical Laboratory

Printed: 10/9/2025 9:03:18AM

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:	10/09/25 03:45	Work Order ID:	E510095
Phone:	(972) 371-5200	Date Logged In:	10/08/25 15:12	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/15/25 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: Dr. Ireland State 16 139 Well Pad

Work Order: E510105

Job Number: 23003-0002

Received: 10/10/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/16/25

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: 10/16/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E510105
Date Received: 10/10/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/10/2025 8:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad 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

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mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/16/25 15:06
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS30-3'	E510105-01A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS31-3'	E510105-02A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS32-3'	E510105-03A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS59-6'	E510105-04A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS60-6'	E510105-05A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS61-6'	E510105-06A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS62-6'	E510105-07A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS63-6'	E510105-08A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS64-6'	E510105-09A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS65-6'	E510105-10A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS66-6'	E510105-11A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS67-6'	E510105-12A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS68-6'	E510105-13A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS69-6'	E510105-14A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS70-6'	E510105-15A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS71-6'	E510105-16A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS73-6'	E510105-17A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS166-1'	E510105-18A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS167-1'	E510105-19A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS178-1'	E510105-20A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS179-1'	E510105-21A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS187-1'	E510105-22A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS188-1'	E510105-23A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS189-1'	E510105-24A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS190-1'	E510105-25A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS191-1'	E510105-26A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS192-1'	E510105-27A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS193-1'	E510105-28A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS200-1'	E510105-29A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS201-1'	E510105-30A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS202-1'	E510105-31A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS206-1'	E510105-32A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS207-1'	E510105-33A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS208-1'	E510105-34A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS209-1'	E510105-35A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS210-1'	E510105-36A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
FS211-1'	E510105-37A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
SW39-0-3'	E510105-38A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
SW40-0-6'	E510105-39A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
SW41-0-6'	E510105-40A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.



Sample Summary

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported: 10/16/25 15:06
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW42-0-5'	E510105-41A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
SW43-0-5'	E510105-42A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.
SW44-0-5'	E510105-43A	Soil	10/08/25	10/10/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS30-3'

E510105-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	10/10/25	10/11/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88.7 %	70-130	10/10/25	10/11/25	
<i>Surrogate: Toluene-d8</i>		95.3 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	10/10/25	10/11/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88.7 %	70-130	10/10/25	10/11/25	
<i>Surrogate: Toluene-d8</i>		95.3 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/11/25	
<i>Surrogate: n-Nonane</i>		95.0 %	61-141	10/10/25	10/11/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	61.7	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS31-3'

E510105-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.2 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.2 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/11/25	
Surrogate: n-Nonane		90.3 %	61-141	10/10/25	10/11/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	176	40.0	2	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS32-3'

E510105-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		84.8 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.0 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		84.8 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.0 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/11/25	
Surrogate: n-Nonane		91.9 %	61-141	10/10/25	10/11/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	176	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS59-6'

E510105-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.1 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.1 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/11/25	
Surrogate: n-Nonane		96.3 %	61-141	10/10/25	10/11/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	158	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS60-6'

E510105-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		94.5 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		94.5 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/11/25	
Surrogate: n-Nonane		95.9 %	61-141	10/10/25	10/11/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	36.4	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS61-6'

E510105-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		95.7 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		95.7 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/11/25	
Surrogate: n-Nonane		93.7 %	61-141	10/10/25	10/11/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	118	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS62-6'

E510105-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/13/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/13/25	
Toluene	ND	0.0250	1	10/10/25	10/13/25	
o-Xylene	ND	0.0250	1	10/10/25	10/13/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/13/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/13/25	
Surrogate: Bromofluorobenzene		107 %	70-130	10/10/25	10/13/25	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	10/10/25	10/13/25	
Surrogate: Toluene-d8		95.6 %	70-130	10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/13/25	
Surrogate: Bromofluorobenzene		107 %	70-130	10/10/25	10/13/25	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	10/10/25	10/13/25	
Surrogate: Toluene-d8		95.6 %	70-130	10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/11/25	
Surrogate: n-Nonane		95.0 %	61-141	10/10/25	10/11/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	75.5	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS63-6'

E510105-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		88.0 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.6 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		88.0 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.6 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/11/25	
Surrogate: n-Nonane		89.7 %	61-141	10/10/25	10/11/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	157	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS64-6'

E510105-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		95.8 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		95.8 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/13/25	
Surrogate: n-Nonane		87.6 %	61-141	10/10/25	10/13/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	120	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS65-6'

E510105-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		90.5 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.7 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		90.5 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.7 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/13/25	
Surrogate: n-Nonane		86.3 %	61-141	10/10/25	10/13/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	98.5	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS66-6'

E510105-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.0 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.0 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/13/25	
Surrogate: n-Nonane		85.5 %	61-141	10/10/25	10/13/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	82.8	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS67-6'

E510105-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		101 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.4 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		101 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.4 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/13/25	
Surrogate: n-Nonane		86.0 %	61-141	10/10/25	10/13/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	171	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS68-6'

E510105-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		95.5 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		95.5 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/13/25	
Surrogate: n-Nonane		86.6 %	61-141	10/10/25	10/13/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	191	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS69-6'

E510105-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		85.3 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.3 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		85.3 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.3 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/13/25	
Surrogate: n-Nonane		85.6 %	61-141	10/10/25	10/13/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	75.1	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS70-6'

E510105-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		86.1 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		95.9 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		86.1 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		95.9 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/13/25	
Surrogate: n-Nonane		85.3 %	61-141	10/10/25	10/13/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	79.1	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS71-6'

E510105-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		87.5 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.1 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		87.5 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		96.1 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/13/25	
Surrogate: n-Nonane		87.5 %	61-141	10/10/25	10/13/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	189	20.0	1	10/10/25	10/11/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS73-6'

E510105-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		101 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		95.5 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		101 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		95.5 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/13/25	
Surrogate: n-Nonane		88.5 %	61-141	10/10/25	10/13/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	150	20.0	1	10/10/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS166-1'

E510105-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		100 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		89.5 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		97.2 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		100 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		89.5 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		97.2 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/13/25	
Surrogate: n-Nonane		85.2 %	61-141	10/10/25	10/13/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	88.0	20.0	1	10/10/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS167-1'

E510105-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		101 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		86.9 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		95.4 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: Bromofluorobenzene		101 %	70-130	10/10/25	10/11/25	
Surrogate: 1,2-Dichloroethane-d4		86.9 %	70-130	10/10/25	10/11/25	
Surrogate: Toluene-d8		95.4 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/13/25	
Surrogate: n-Nonane		89.0 %	61-141	10/10/25	10/13/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	103	40.0	2	10/10/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS178-1'

E510105-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Benzene	ND	0.0250	1	10/10/25	10/13/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/13/25	
Toluene	ND	0.0250	1	10/10/25	10/13/25	
o-Xylene	ND	0.0250	1	10/10/25	10/13/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/13/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/13/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/13/25	
Surrogate: 1,2-Dichloroethane-d4		86.9 %	70-130	10/10/25	10/13/25	
Surrogate: Toluene-d8		96.1 %	70-130	10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541157
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/13/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/10/25	10/13/25	
Surrogate: 1,2-Dichloroethane-d4		86.9 %	70-130	10/10/25	10/13/25	
Surrogate: Toluene-d8		96.1 %	70-130	10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541138
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/13/25	
Surrogate: n-Nonane		86.3 %	61-141	10/10/25	10/13/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2541156
Chloride	82.7	20.0	1	10/10/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS179-1'

E510105-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.1 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	95.1 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	215	40.0	2	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS187-1'

E510105-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.2 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.4 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>	95.1 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	81.5	20.0	1	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS188-1'

E510105-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2541160
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
Surrogate: 4-Bromochlorobenzene-PID	97.3 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2541160
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.2 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2541139
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
Surrogate: n-Nonane	99.0 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2542011
Chloride	154	40.0	2	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS189-1'

E510105-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.3 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.3 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>	95.0 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	59.4	20.0	1	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS190-1'

E510105-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.3 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	94.7 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	227	40.0	2	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS191-1'

E510105-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.8 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	94.8 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	120	20.0	1	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS192-1'

E510105-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.9 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	91.4 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	121	20.0	1	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS193-1'

E510105-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.8 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	95.8 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	118	20.0	1	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS200-1'

E510105-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.5 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.2 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>	95.8 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	229	40.0	2	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS201-1'

E510105-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.7 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	92.9 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	79.6	20.0	1	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS202-1'

E510105-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.6 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	93.1 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	102	20.0	1	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS206-1'

E510105-32

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.6 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.5 %	70-130	10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>		94.7 %	61-141	10/10/25	10/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	223	40.0	2	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS207-1'

E510105-33

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.4 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	93.7 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	273	40.0	2	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS208-1'

E510105-34

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.7 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	90.4 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	296	40.0	2	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS209-1'

E510105-35

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.5 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	93.8 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	157	40.0	2	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS210-1'

E510105-36

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.5 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	94.0 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	158	40.0	2	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

FS211-1'

E510105-37

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/11/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/11/25	
Toluene	ND	0.0250	1	10/10/25	10/11/25	
o-Xylene	ND	0.0250	1	10/10/25	10/11/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/11/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.0 %	70-130		10/10/25	10/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	92.5 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	166	20.0	1	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

SW39-0-3'

E510105-38

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/13/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/13/25	
Toluene	ND	0.0250	1	10/10/25	10/13/25	
o-Xylene	ND	0.0250	1	10/10/25	10/13/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/13/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/13/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.6 %	70-130		10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/13/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	93.0 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	204	100	5	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

SW40-0-6'

E510105-39

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/13/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/13/25	
Toluene	ND	0.0250	1	10/10/25	10/13/25	
o-Xylene	ND	0.0250	1	10/10/25	10/13/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/13/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/13/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.7 %	70-130		10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/13/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.0 %	70-130		10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>	93.2 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	223	100	5	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

SW41-0-6'

E510105-40

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Benzene	ND	0.0250	1	10/10/25	10/13/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/13/25	
Toluene	ND	0.0250	1	10/10/25	10/13/25	
o-Xylene	ND	0.0250	1	10/10/25	10/13/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/13/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/13/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2541160	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/13/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.3 %	70-130		10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2541139	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/14/25	
<i>Surrogate: n-Nonane</i>						
	90.9 %	61-141		10/10/25	10/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542011	
Chloride	213	100	5	10/13/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

SW42-0-5'

E510105-41

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541141	
Benzene	ND	0.0250	1	10/10/25	10/13/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/13/25	
Toluene	ND	0.0250	1	10/10/25	10/13/25	
o-Xylene	ND	0.0250	1	10/10/25	10/13/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/13/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/13/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541141	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/13/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541136	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
	86.1 %	61-141		10/10/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541155	
Chloride	176	20.0	1	10/10/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

SW43-0-5'

E510105-42

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541141
Benzene	ND	0.0250	1	10/10/25	10/13/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/13/25	
Toluene	ND	0.0250	1	10/10/25	10/13/25	
o-Xylene	ND	0.0250	1	10/10/25	10/13/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/13/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/13/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2541141
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/13/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.1 %	70-130	10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2541136
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
		88.0 %	61-141	10/10/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2541155
Chloride	165	20.0	1	10/10/25	10/13/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/16/2025 3:06:44PM

SW44-0-5'

E510105-43

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541141	
Benzene	ND	0.0250	1	10/10/25	10/13/25	
Ethylbenzene	ND	0.0250	1	10/10/25	10/13/25	
Toluene	ND	0.0250	1	10/10/25	10/13/25	
o-Xylene	ND	0.0250	1	10/10/25	10/13/25	
p,m-Xylene	ND	0.0500	1	10/10/25	10/13/25	
Total Xylenes	ND	0.0250	1	10/10/25	10/13/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2541141	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/10/25	10/13/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.7 %	70-130		10/10/25	10/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2541136	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/10/25	10/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/10/25	10/10/25	
<i>Surrogate: n-Nonane</i>						
	86.2 %	61-141		10/10/25	10/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2541155	
Chloride	207	20.0	1	10/10/25	10/13/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/16/2025 3:06:44PM

Volatile Organic Compounds by EPA 8260B

Analyst: SL

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

Blank (2541157-BLK1)

Prepared: 10/10/25 Analyzed: 10/13/25

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	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.427		0.500		85.4	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.6	70-130			

LCS (2541157-BS1)

Prepared: 10/10/25 Analyzed: 10/13/25

Benzene	2.29	0.0250	2.50		91.8	70-130			
Ethylbenzene	2.44	0.0250	2.50		97.6	70-130			
Toluene	2.35	0.0250	2.50		93.9	70-130			
o-Xylene	2.47	0.0250	2.50		99.0	70-130			
p,m-Xylene	5.11	0.0500	5.00		102	70-130			
Total Xylenes	7.59	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			

Matrix Spike (2541157-MS1)

Source: E510105-07

Prepared: 10/10/25 Analyzed: 10/13/25

Benzene	2.30	0.0250	2.50	ND	91.8	48-131			
Ethylbenzene	2.40	0.0250	2.50	ND	96.0	45-135			
Toluene	2.29	0.0250	2.50	ND	91.5	48-130			
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135			
p,m-Xylene	4.99	0.0500	5.00	ND	99.8	43-135			
Total Xylenes	7.43	0.0250	7.50	ND	99.0	43-135			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.454		0.500		90.8	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.6	70-130			

Matrix Spike Dup (2541157-MSD1)

Source: E510105-07

Prepared: 10/10/25 Analyzed: 10/13/25

Benzene	2.37	0.0250	2.50	ND	94.7	48-131	3.07	23	
Ethylbenzene	2.49	0.0250	2.50	ND	99.7	45-135	3.78	27	
Toluene	2.37	0.0250	2.50	ND	94.9	48-130	3.71	24	
o-Xylene	2.56	0.0250	2.50	ND	103	43-135	5.18	27	
p,m-Xylene	5.30	0.0500	5.00	ND	106	43-135	5.97	27	
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135	5.71	27	
Surrogate: Bromofluorobenzene	0.537		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.452		0.500		90.4	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/16/2025 3:06:44PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541141-BLK1) Prepared: 10/10/25 Analyzed: 10/11/25

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	7.83		8.00		97.8	70-130			

LCS (2541141-BS1) Prepared: 10/10/25 Analyzed: 10/11/25

Benzene	6.34	0.0250	5.00		127	70-130			
Ethylbenzene	6.24	0.0250	5.00		125	70-130			
Toluene	6.31	0.0250	5.00		126	70-130			
o-Xylene	6.24	0.0250	5.00		125	70-130			
p,m-Xylene	12.6	0.0500	10.0		126	70-130			
Total Xylenes	18.9	0.0250	15.0		126	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.3	70-130			

Matrix Spike (2541141-MS1) Source: E510103-06 Prepared: 10/10/25 Analyzed: 10/11/25

Benzene	5.84	0.0250	5.00	ND	117	70-130			
Ethylbenzene	5.74	0.0250	5.00	ND	115	70-130			
Toluene	5.80	0.0250	5.00	ND	116	70-130			
o-Xylene	5.75	0.0250	5.00	ND	115	70-130			
p,m-Xylene	11.7	0.0500	10.0	ND	117	70-130			
Total Xylenes	17.4	0.0250	15.0	ND	116	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130			

Matrix Spike Dup (2541141-MSD1) Source: E510103-06 Prepared: 10/10/25 Analyzed: 10/11/25

Benzene	6.25	0.0250	5.00	ND	125	70-130	6.83	27	
Ethylbenzene	6.16	0.0250	5.00	ND	123	70-130	7.01	26	
Toluene	6.22	0.0250	5.00	ND	124	70-130	6.93	20	
o-Xylene	6.16	0.0250	5.00	ND	123	70-130	6.87	25	
p,m-Xylene	12.5	0.0500	10.0	ND	125	70-130	6.90	23	
Total Xylenes	18.7	0.0250	15.0	ND	124	70-130	6.89	26	
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.3	70-130			



Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/16/2025 3:06:44PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541160-BLK1)

Prepared: 10/10/25 Analyzed: 10/10/25

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	7.55		8.00		94.3	70-130			

LCS (2541160-BS1)

Prepared: 10/10/25 Analyzed: 10/11/25

Benzene	4.67	0.0250	5.00		93.3	70-130			
Ethylbenzene	4.51	0.0250	5.00		90.1	70-130			
Toluene	4.60	0.0250	5.00		92.0	70-130			
o-Xylene	4.57	0.0250	5.00		91.4	70-130			
p,m-Xylene	9.13	0.0500	10.0		91.3	70-130			
Total Xylenes	13.7	0.0250	15.0		91.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.7	70-130			

Matrix Spike (2541160-MS1)

Source: E510105-21 Prepared: 10/10/25 Analyzed: 10/11/25

Benzene	4.86	0.0250	5.00	ND	97.3	70-130			
Ethylbenzene	4.69	0.0250	5.00	ND	93.9	70-130			
Toluene	4.79	0.0250	5.00	ND	95.8	70-130			
o-Xylene	4.72	0.0250	5.00	ND	94.5	70-130			
p,m-Xylene	9.49	0.0500	10.0	ND	94.9	70-130			
Total Xylenes	14.2	0.0250	15.0	ND	94.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2541160-MSD1)

Source: E510105-21 Prepared: 10/10/25 Analyzed: 10/11/25

Benzene	5.66	0.0250	5.00	ND	113	70-130	15.1	27	
Ethylbenzene	5.47	0.0250	5.00	ND	109	70-130	15.3	26	
Toluene	5.58	0.0250	5.00	ND	112	70-130	15.2	20	
o-Xylene	5.52	0.0250	5.00	ND	110	70-130	15.5	25	
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130	15.1	23	
Total Xylenes	16.6	0.0250	15.0	ND	110	70-130	15.2	26	
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.2	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/16/2025 3:06:44PM

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
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Blank (2541141-BLK1) Prepared: 10/10/25 Analyzed: 10/11/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.86		8.00		85.8	70-130			

LCS (2541141-BS2) Prepared: 10/10/25 Analyzed: 10/11/25

Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.86		8.00		85.7	70-130			

Matrix Spike (2541141-MS2) Source: E510103-06 Prepared: 10/10/25 Analyzed: 10/11/25

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130			

Matrix Spike Dup (2541141-MSD2) Source: E510103-06 Prepared: 10/10/25 Analyzed: 10/11/25

Gasoline Range Organics (C6-C10)	53.8	20.0	50.0	ND	108	70-130	17.6	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		8.00		87.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/16/2025 3:06:44PM

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
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Blank (2541157-BLK1) Prepared: 10/10/25 Analyzed: 10/13/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.427		0.500		85.4	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.6	70-130			

LCS (2541157-BS2) Prepared: 10/10/25 Analyzed: 10/13/25

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.428		0.500		85.5	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.4	70-130			

Matrix Spike (2541157-MS2) Source: E510105-07 Prepared: 10/10/25 Analyzed: 10/13/25

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.444		0.500		88.7	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			

Matrix Spike Dup (2541157-MSD2) Source: E510105-07 Prepared: 10/10/25 Analyzed: 10/13/25

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130	5.51	20	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.441		0.500		88.2	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.7	70-130			



Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/16/2025 3:06:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541160-BLK1)					Prepared: 10/10/25 Analyzed: 10/10/25				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			
LCS (2541160-BS2)					Prepared: 10/10/25 Analyzed: 10/11/25				
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0		99.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	70-130			
Matrix Spike (2541160-MS2)					Source: E510105-21		Prepared: 10/10/25 Analyzed: 10/11/25		
Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.07		8.00		88.4	70-130			
Matrix Spike Dup (2541160-MSD2)					Source: E510105-21		Prepared: 10/10/25 Analyzed: 10/11/25		
Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130	11.8	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.2	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/16/2025 3:06:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541136-BLK1)					Prepared: 10/10/25 Analyzed: 10/10/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.2		50.0		84.3	61-141			

LCS (2541136-BS1)					Prepared: 10/10/25 Analyzed: 10/10/25				
Diesel Range Organics (C10-C28)	236	25.0	250		94.2	66-144			
Surrogate: n-Nonane	43.0		50.0		86.0	61-141			

Matrix Spike (2541136-MS1)					Source: E510103-04		Prepared: 10/10/25 Analyzed: 10/10/25		
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.4	56-156			
Surrogate: n-Nonane	43.8		50.0		87.6	61-141			

Matrix Spike Dup (2541136-MSD1)					Source: E510103-04		Prepared: 10/10/25 Analyzed: 10/10/25		
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.5	56-156	1.18	20	
Surrogate: n-Nonane	44.4		50.0		88.8	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/16/2025 3:06:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541138-BLK1)					Prepared: 10/10/25 Analyzed: 10/11/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.1		50.0		88.1	61-141			

LCS (2541138-BS1)					Prepared: 10/10/25 Analyzed: 10/11/25				
Diesel Range Organics (C10-C28)	231	25.0	250		92.6	66-144			
Surrogate: n-Nonane	45.0		50.0		90.0	61-141			

Matrix Spike (2541138-MS1)					Source: E510105-16		Prepared: 10/10/25 Analyzed: 10/13/25		
Diesel Range Organics (C10-C28)	230	25.0	250	ND	91.9	56-156			
Surrogate: n-Nonane	43.7		50.0		87.4	61-141			

Matrix Spike Dup (2541138-MSD1)					Source: E510105-16		Prepared: 10/10/25 Analyzed: 10/13/25		
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.3	56-156	1.84	20	
Surrogate: n-Nonane	43.4		50.0		86.8	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/16/2025 3:06:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541139-BLK1)					Prepared: 10/10/25 Analyzed: 10/14/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.5		50.0		91.0	61-141			

LCS (2541139-BS1)					Prepared: 10/10/25 Analyzed: 10/14/25				
Diesel Range Organics (C10-C28)	244	25.0	250		97.7	66-144			
Surrogate: n-Nonane	46.5		50.0		92.9	61-141			

Matrix Spike (2541139-MS1)					Source: E510105-27		Prepared: 10/10/25 Analyzed: 10/14/25		
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.8	56-156			
Surrogate: n-Nonane	46.3		50.0		92.6	61-141			

Matrix Spike Dup (2541139-MSD1)					Source: E510105-27		Prepared: 10/10/25 Analyzed: 10/14/25		
Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.9	56-156	3.14	20	
Surrogate: n-Nonane	46.7		50.0		93.3	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/16/2025 3:06:44PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2541155-BLK1)					Prepared: 10/10/25 Analyzed: 10/13/25				
Chloride	ND	20.0							
LCS (2541155-BS1)					Prepared: 10/10/25 Analyzed: 10/13/25				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2541155-MS1)					Source: E510104-23		Prepared: 10/10/25 Analyzed: 10/13/25		
Chloride	374	20.0	250	136	95.0	80-120			
Matrix Spike Dup (2541155-MSD1)					Source: E510104-23		Prepared: 10/10/25 Analyzed: 10/13/25		
Chloride	389	20.0	250	136	101	80-120	4.05	20	



Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/16/2025 3:06:44PM

Anions by EPA 300.0/9056A									Analyst: TP
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2541156-BLK1)					Prepared: 10/10/25 Analyzed: 10/11/25				
Chloride	ND	20.0							
LCS (2541156-BS1)					Prepared: 10/10/25 Analyzed: 10/11/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2541156-MS1)					Source: E510105-04		Prepared: 10/10/25 Analyzed: 10/11/25		
Chloride	419	20.0	250	158	104	80-120			
Matrix Spike Dup (2541156-MSD1)					Source: E510105-04		Prepared: 10/10/25 Analyzed: 10/11/25		
Chloride	417	20.0	250	158	104	80-120	0.400	20	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/16/2025 3:06:44PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542011-BLK1)				Prepared: 10/13/25 Analyzed: 10/13/25					
Chloride	ND	20.0							
LCS (2542011-BS1)				Prepared: 10/13/25 Analyzed: 10/13/25					
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2542011-MS1)				Source: E510105-27		Prepared: 10/13/25 Analyzed: 10/13/25			
Chloride	380	20.0	250	121	103	80-120			
Matrix Spike Dup (2542011-MSD1)				Source: E510105-27		Prepared: 10/13/25 Analyzed: 10/13/25			
Chloride	379	20.0	250	121	103	80-120	0.178	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/16/25 15:06

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				Company: Ensolum LLC				Lab WO# E510105				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: Dr. Ireland State 16 139 Well Pad				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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA									
1520	10/08/2025	S	1	FS30-3'			1							X		4.9											
1522	10/08/2025	S	1	FS31-3'			2							X		2.5											
1525	10/08/2025	S	1	FS32-3'			3							X		4.4											
1045	10/08/2025	S	1	FS59-6'			4							X		3.3											
1046	10/08/2025	S	1	FS60-6'			5							X		5.0											
1048	10/08/2025	S	1	FS61-6'			6							X		2.0											
1047	10/08/2025	S	1	FS62-6'			7							X		4.9											
1050	10/08/2025	S	1	FS63-6'			8							X		5.4											
1052	10/08/2025	S	1	FS64-6'			9							X		5.4											
1049	10/08/2025	S	1	FS65-6'			10							X		5.5											
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: Higinio Gonzalez																											
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: ☒ Y ☐ N											
				10-09-25		0930						10-9-25		0930													
				10-9-25		1215						10-9-25		1215													
				10-9-25		1650						10-9-25		1650													
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time													
				10-9-25		2245						10-10-25		800													
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																											
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Client Information				Invoice Information		Lab Use Only		TAT		State							
Client: Matador				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E516/05	83003-0002				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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA
1051	10/08/2025	S	1	FS66-6'		11							X		4.0		
1059	10/08/2025	S	1	FS67-6'		12							X		4.6		
1054	10/08/2025	S	1	FS68-6'		13							X		3.5		
1056	10/08/2025	S	1	FS69-6'		14							X		3.7		
1055	10/08/2025	S	1	FS70-6'		15							X		5.2		
1100	10/08/2025	S	1	FS71-6'		16							X		5.4		
1105	10/08/2025	S	1	FS73-6'		17							X		2.5		
1359	10/08/2025	S	1	FS166-1'		18							X		5.3		
1430	10/08/2025	S	1	FS167-1'		19							X		4.8		
1400	10/08/2025	S	1	FS178-1'		20							X		4.6		
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																	
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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									
		10-09-25	0930	Michelle Gonzalez		10-9-25	0930										
		10-9-25	1215			10-9-25	1215										
		10-9-25	1650	Andrew Musso		10-9-25	1650										
		10-9-25	2245	Caitlin Mor		10-10-25	800										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
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Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E519165	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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCEQ 1005 - TX	RCRA 8 Metals	BDOC - NM	BDOC - TX	SDWA	CWA	RCRA	
1401	10/08/2025	S	1	FS179-1'		21							X					
1402	10/08/2025	S	1	FS187-1'		22							X					
1404	10/08/2025	S	1	FS188-1'		23							X					
1405	10/08/2025	S	1	FS189-1'		24							X					
1407	10/08/2025	S	1	FS190-1'		25							X					
1409	10/08/2025	S	1	FS191-1'		26							X					
1410	10/08/2025	S	1	FS192-1'		27							X					
1412	10/08/2025	S	1	FS193-1'		28							X					
1353	10/08/2025	S	1	FS200-1'		29							X					
1413	10/08/2025	S	1	FS201-1'		30							X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																		
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Sampled by: Higinio Gonzalez																		
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Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
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Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510105	23013-0002				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/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	TCQ 1005 - TX	RCRA 8 Metals	SGDOC - NM	SGDOC - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
1415	10/08/2025	S	1	FS202-1'		31							X		5.1			
1355	10/08/2025	S	1	FS206-1'		32							X		5.2			
1337	10/08/2025	S	1	FS207-1'		33							X		4.9			
1339	10/08/2025	S	1	FS208-1'		34							X		4.8			
1341	10/08/2025	S	1	FS209-1'		35							X		2.2			
1343	10/08/2025	S	1	FS210-1'		36							X		2.1			
1436	10/08/2025	S	1	FS211-1'		37							X		4.4			
1231	10/08/2025	S	1	SW39- 0-3'		38							X		4.3			
1235	10/08/2025	S	1	SW40- 0-6'		39							X		5.2			
1237	10/08/2025	S	1	SW41- 0-6'		40							X		4.9			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com																		
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		10-9-25	1215			10-9-25	1650			10-9-25	2245			10-10-25	800			
		10-9-25	2245			10-10-25	800			10-10-25	800			10-10-25	800			
Lab Use Only Received on ice: ☒ Y ☐ N																		
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Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510105	23013-0002				x	X						
Project Manager: Ashlev 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:														
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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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
1306	10/08/2025	S	1	SW42- 0-5'		41							X		4.9			
1310	10/08/2025	S	1	SW43- 0-5'		42							X		3.9			
1313	10/08/2025	S	1	SW44- 0-5'		43							X		4.7			
	10/08/2025	S	1															
	10/08/2025	S	1															
	10/08/2025	S	1															
	10/08/2025	S	1															
	10/08/2025	S	1															
	10/08/2025	S	1															
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<i>Higinio Gonzalez</i>	10-09-25	0930	<i>Michelle Gonzales</i>	10-9-25	0930													
<i>Michelle Gonzales</i>	10-9-25	1215	<i>Michelle Gonzales</i>	10-9-25	1215													
<i>Michelle Gonzales</i>	10-9-25	1650	<i>Andrew Musso</i>	10-9-25	1650													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time													
<i>Andrew Musso</i>	10-9-25	2245	<i>Coith Mann</i>	10-10-25	800													
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Envirotech Analytical Laboratory

Printed: 10/10/2025 10:01:25AM

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:	10/10/25 08:00	Work Order ID:	E510105
Phone:	(972) 371-5200	Date Logged In:	10/09/25 14:13	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/16/25 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: Dr. Ireland State 16 139 Well Pad

Work Order: E510141

Job Number: 23003-0002

Received: 10/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/20/25

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: 10/20/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E510141
Date Received: 10/14/2025 8:00:56AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/14/2025 8:00:56AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/20/25 15:17
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW45-0-2'	E510141-01A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
SW46-0-2'	E510141-02A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
SW47-0-3'	E510141-03A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
SW48-0-3'	E510141-04A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
SW49-0-2'	E510141-05A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
SW50-0-1'	E510141-06A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/20/2025 3:17:26PM

SW45-0-2'

E510141-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	10/14/25	10/16/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88.5 %	70-130	10/14/25	10/16/25	
<i>Surrogate: Toluene-d8</i>		94.9 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	10/14/25	10/16/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88.5 %	70-130	10/14/25	10/16/25	
<i>Surrogate: Toluene-d8</i>		94.9 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
<i>Surrogate: n-Nonane</i>		94.8 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	190	20.0	1	10/16/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/20/2025 3:17:26PM

SW46-0-2'

E510141-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		95.3 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		95.3 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
Surrogate: n-Nonane		93.1 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	127	20.0	1	10/16/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/20/2025 3:17:26PM

SW47-0-3'

E510141-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		87.4 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		95.3 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		103 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		87.4 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		95.3 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
Surrogate: n-Nonane		106 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	172	20.0	1	10/16/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/20/2025 3:17:26PM

SW48-0-3'

E510141-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Benzene	ND	0.0250	1	10/14/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/17/25	
Toluene	ND	0.0250	1	10/14/25	10/17/25	
o-Xylene	ND	0.0250	1	10/14/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/17/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/14/25	10/17/25	
Surrogate: 1,2-Dichloroethane-d4		88.5 %	70-130	10/14/25	10/17/25	
Surrogate: Toluene-d8		95.9 %	70-130	10/14/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/17/25	
Surrogate: Bromofluorobenzene		104 %	70-130	10/14/25	10/17/25	
Surrogate: 1,2-Dichloroethane-d4		88.5 %	70-130	10/14/25	10/17/25	
Surrogate: Toluene-d8		95.9 %	70-130	10/14/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
Surrogate: n-Nonane		98.0 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	80.2	20.0	1	10/16/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/20/2025 3:17:26PM

SW49-0-2'

E510141-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		100 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		87.0 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		96.2 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		100 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		87.0 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		96.2 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
Surrogate: n-Nonane		94.9 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	86.1	20.0	1	10/16/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/20/2025 3:17:26PM

SW50-0-1'

E510141-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		100 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		88.6 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		96.3 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		100 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		88.6 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		96.3 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
Surrogate: n-Nonane		102 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	73.4	20.0	1	10/16/25	10/16/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/20/2025 3:17:26PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2542049-BLK1) Prepared: 10/14/25 Analyzed: 10/16/25

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	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.5	70-130			
Surrogate: Toluene-d8	0.472		0.500		94.4	70-130			

LCS (2542049-BS1) Prepared: 10/14/25 Analyzed: 10/16/25

Benzene	2.23	0.0250	2.50		89.3	70-130			
Ethylbenzene	2.30	0.0250	2.50		92.0	70-130			
Toluene	2.21	0.0250	2.50		88.4	70-130			
o-Xylene	2.34	0.0250	2.50		93.4	70-130			
p,m-Xylene	4.75	0.0500	5.00		94.9	70-130			
Total Xylenes	7.08	0.0250	7.50		94.4	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.6	70-130			

Matrix Spike (2542049-MS1) Source: E510141-04 Prepared: 10/14/25 Analyzed: 10/17/25

Benzene	2.48	0.0250	2.50	ND	99.3	48-131			
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135			
Toluene	2.46	0.0250	2.50	ND	98.2	48-130			
o-Xylene	2.63	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.36	0.0500	5.00	ND	107	43-135			
Total Xylenes	7.99	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.454		0.500		90.7	70-130			
Surrogate: Toluene-d8	0.480		0.500		95.9	70-130			

Matrix Spike Dup (2542049-MSD1) Source: E510141-04 Prepared: 10/14/25 Analyzed: 10/17/25

Benzene	2.42	0.0250	2.50	ND	97.0	48-131	2.32	23	
Ethylbenzene	2.51	0.0250	2.50	ND	101	45-135	2.01	27	
Toluene	2.40	0.0250	2.50	ND	95.8	48-130	2.43	24	
o-Xylene	2.55	0.0250	2.50	ND	102	43-135	3.17	27	
p,m-Xylene	5.24	0.0500	5.00	ND	105	43-135	2.32	27	
Total Xylenes	7.78	0.0250	7.50	ND	104	43-135	2.60	27	
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.1	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported: 10/20/2025 3:17:26PM
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
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Blank (2542049-BLK1) Prepared: 10/14/25 Analyzed: 10/16/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.5	70-130			
Surrogate: Toluene-d8	0.472		0.500		94.4	70-130			

LCS (2542049-BS2) Prepared: 10/14/25 Analyzed: 10/16/25

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.432		0.500		86.4	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

Matrix Spike (2542049-MS2) Source: E510141-04 Prepared: 10/14/25 Analyzed: 10/17/25

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.437		0.500		87.3	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			

Matrix Spike Dup (2542049-MSD2) Source: E510141-04 Prepared: 10/14/25 Analyzed: 10/17/25

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130	5.23	20	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.444		0.500		88.7	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/20/2025 3:17:26PM

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
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Blank (2542064-BLK1)					Prepared: 10/15/25 Analyzed: 10/15/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.6		50.0		95.2	61-141			

LCS (2542064-BS1)					Prepared: 10/15/25 Analyzed: 10/15/25				
Diesel Range Organics (C10-C28)	237	25.0	250		94.8	66-144			
Surrogate: n-Nonane	46.2		50.0		92.3	61-141			

Matrix Spike (2542064-MS1)					Source: E510142-47		Prepared: 10/15/25 Analyzed: 10/15/25		
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	56-156			
Surrogate: n-Nonane	48.0		50.0		96.1	61-141			

Matrix Spike Dup (2542064-MSD1)					Source: E510142-47		Prepared: 10/15/25 Analyzed: 10/15/25		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	56-156	1.89	20	
Surrogate: n-Nonane	49.0		50.0		98.0	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/20/2025 3:17:26PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542097-BLK1)					Prepared: 10/16/25 Analyzed: 10/16/25				
Chloride	ND	20.0							
LCS (2542097-BS1)					Prepared: 10/16/25 Analyzed: 10/16/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2542097-MS1)					Source: E510141-03		Prepared: 10/16/25 Analyzed: 10/17/25		
Chloride	459	20.0	250	172	115	80-120			
Matrix Spike Dup (2542097-MSD1)					Source: E510141-03		Prepared: 10/16/25 Analyzed: 10/17/25		
Chloride	452	20.0	250	172	112	80-120	1.46	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/20/25 15:17

- 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				NM											
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy				E510141				2D				CO											
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220				Job Number				3D				UT											
Address: 3122 National Parks Hwy				Phone: 575-988-0055				23005-0002				Std				TX											
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com								X															
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							
801	10/10/2025	S	1	SW45 - 0 - 2'			1								X		29										
805	10/10/2025	S	1	SW46 - 0 - 2'			2								X		24										
810	10/10/2025	S	1	SW47 - 0 - 3'			3								X		20										
814	10/10/2025	S	1	SW48 - 0 - 3'			4								X		26										
816	10/10/2025	S	1	SW49 - 0 - 2'			5								X		22										
820	10/10/2025	S	1	SW50 - 0 - 1'			6								X		28										
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: Higinio Gonzalez																											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temperature above 0 but less than 6°C on subsequent days.															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: Y/N															
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: 10/14/2025 10:56:41AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	10/14/25 08:00	Work Order ID:	E510141
Phone:	(972) 371-5200	Date Logged In:	10/13/25 16:36	Logged In By:	Joslyn Meidinger
Email:	agiovento@ensolum.com	Due Date:	10/20/25 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

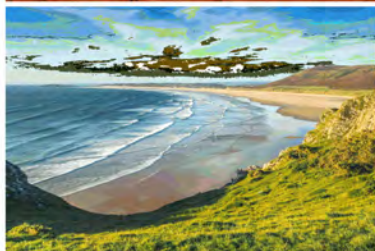
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E510142

Job Number: 23003-0002

Received: 10/14/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/5/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/5/25

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



Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E510142
Date Received: 10/14/2025 8:00:56AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/14/2025 8:00:56AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Dr. Ireland State 16 139 Well Pad

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

11/05/25 12:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS33 - 3'	E510142-01A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS34 - 3'	E510142-02A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS35 - 3'	E510142-03A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS36 - 3'	E510142-04A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS37 - 3'	E510142-05A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS38 - 3'	E510142-06A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS39 - 3'	E510142-07A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS40 - 3'	E510142-08A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS41 - 3'	E510142-09A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS42 - 3'	E510142-10A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS43 - 3'	E510142-11A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS44 - 3'	E510142-12A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS45 - 3'	E510142-13A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS46 - 3'	E510142-14A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS47 - 3'	E510142-15A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS48 - 3'	E510142-16A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS49 - 3'	E510142-17A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS50 - 3'	E510142-18A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS51 - 3'	E510142-19A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS52 - 3'	E510142-20A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS53 - 3'	E510142-21A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS54 - 3'	E510142-22A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS55 - 3'	E510142-23A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS56 - 3'	E510142-24A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS57 - 3'	E510142-25A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS58 - 3'	E510142-26A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS72 - 6'	E510142-27A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS134 - 0.5'	E510142-28A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS135 - 0.5'	E510142-29A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS136 - 0.5'	E510142-30A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS137 - 0.5'	E510142-31A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS138 - 0.5'	E510142-32A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS139 - 0.5'	E510142-33A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS140 - 0.5'	E510142-34A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS141 - 0.5'	E510142-35A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS143 - 0.5'	E510142-36A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS144 - 0.5'	E510142-37A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS145 - 0.5'	E510142-38A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS146 - 0.5'	E510142-39A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS147 - 0.5'	E510142-40A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.



Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/05/25 12:33
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS148 - 0.5'	E510142-41A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS154 - 0.5'	E510142-42A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS163 - 0.5'	E510142-43A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS164 - 0.5'	E510142-44A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS172 - 0.5'	E510142-45A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS176 - 0.5'	E510142-46A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.
FS181 - 0.5'	E510142-47A	Soil	10/10/25	10/14/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS33 - 3'

E510142-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/15/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/15/25	
Toluene	ND	0.0250	1	10/14/25	10/15/25	
o-Xylene	ND	0.0250	1	10/14/25	10/15/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/15/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/14/25	10/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.9 %	70-130	10/14/25	10/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
<i>Surrogate: n-Nonane</i>						
		113 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	61.2	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS34 - 3'

E510142-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/15/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/15/25	
Toluene	ND	0.0250	1	10/14/25	10/15/25	
o-Xylene	ND	0.0250	1	10/14/25	10/15/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/15/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	10/14/25	10/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.6 %	70-130	10/14/25	10/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
<i>Surrogate: n-Nonane</i>		95.2 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	99.6	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS35 - 3'

E510142-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/15/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/15/25	
Toluene	ND	0.0250	1	10/14/25	10/15/25	
o-Xylene	ND	0.0250	1	10/14/25	10/15/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/15/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	10/14/25	10/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.9 %	70-130	10/14/25	10/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	143	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS36 - 3'

E510142-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/15/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/15/25	
Toluene	ND	0.0250	1	10/14/25	10/15/25	
o-Xylene	ND	0.0250	1	10/14/25	10/15/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/15/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	10/14/25	10/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.3 %	70-130	10/14/25	10/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	89.2	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS37 - 3'

E510142-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/15/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/15/25	
Toluene	ND	0.0250	1	10/14/25	10/15/25	
o-Xylene	ND	0.0250	1	10/14/25	10/15/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/15/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	10/14/25	10/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	10/14/25	10/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		96.3 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	123	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS38 - 3'

E510142-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/15/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/15/25	
Toluene	ND	0.0250	1	10/14/25	10/15/25	
o-Xylene	ND	0.0250	1	10/14/25	10/15/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/15/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	10/14/25	10/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.8 %	70-130	10/14/25	10/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		95.4 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	54.8	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS39 - 3'

E510142-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		95.9 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	98.6	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS40 - 3'

E510142-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.2 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		96.8 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	122	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS41 - 3'

E510142-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2542053
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2542053
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.0 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542065
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		96.0 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2542082
Chloride	126	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS42 - 3'

E510142-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.9 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		92.4 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	112	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS43 - 3'

E510142-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.9 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		92.7 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	106	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS44 - 3'

E510142-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.5 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		94.6 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	93.0	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS45 - 3'

E510142-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.8 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		93.9 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	129	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS46 - 3'

E510142-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		113 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	130	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS47 - 3'

E510142-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.4 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	131	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS48 - 3'

E510142-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.4 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		95.5 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	103	20.0	1	10/15/25	10/15/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS49 - 3'

E510142-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2542053
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2542053
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.0 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542065
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		95.2 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2542082
Chloride	124	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS50 - 3'

E510142-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.1 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	140	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS51 - 3'

E510142-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.1 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		94.7 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	109	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS52 - 3'

E510142-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2542053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.7 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542065	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
		114 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542082	
Chloride	102	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS53 - 3'

E510142-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		113 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.9 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	99.3	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS54 - 3'

E510142-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.2 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	128	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS55 - 3'

E510142-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.8 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	107	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS56 - 3'

E510142-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.3 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	87.3	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS57 - 3'

E510142-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.6 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	98.1	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS58 - 3'

E510142-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		116 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.2 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	110	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS72 - 6'

E510142-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		117 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.2 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	120	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS134 - 0.5'

E510142-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		118 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.2 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	108	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS135 - 0.5'

E510142-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		116 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.8 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	100	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS136 - 0.5'

E510142-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		116 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.6 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	80.9	40.0	2	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS137 - 0.5'

E510142-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.8 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	84.0	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS138 - 0.5'

E510142-32

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.2 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	52.7	20.0	1	10/15/25	10/16/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/5/2025 12:33:12PM
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FS139 - 0.5'
E510142-33

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: 4-Bromochlorobenzene-PID	112 %	70-130		10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.0 %	70-130		10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
Surrogate: n-Nonane	108 %	61-141		10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	66.4	20.0	1	10/15/25	10/16/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/5/2025 12:33:12PM
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FS140 - 0.5'
E510142-34

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: 4-Bromochlorobenzene-PID	113 %	70-130		10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.4 %	70-130		10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
Surrogate: n-Nonane	103 %	61-141		10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	50.8	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS141 - 0.5'

E510142-35

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		100 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	63.3	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS143 - 0.5'

E510142-36

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	116 %	70-130		10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	100 %	70-130		10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		10/15/25	10/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	74.6	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS144 - 0.5'

E510142-37

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	90.5	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS145 - 0.5'

E510142-38

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	62.4	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS146 - 0.5'

E510142-39

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	71.8	40.0	2	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS147 - 0.5'

E510142-40

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		117 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB		Batch: 2542054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/16/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	10/15/25	10/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2542083	
Chloride	73.8	20.0	1	10/15/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS148 - 0.5'

E510142-41

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		86.3 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		95.5 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		86.3 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		95.5 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
Surrogate: n-Nonane		95.0 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	74.1	20.0	1	10/16/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS154 - 0.5'

E510142-42

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542049	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		94.9 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		94.9 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542064	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
Surrogate: n-Nonane		96.5 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2542097	
Chloride	305	100	5	10/16/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS163 - 0.5'

E510142-43

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		101 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		87.2 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		94.4 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		101 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		87.2 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		94.4 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
Surrogate: n-Nonane		96.1 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	324	200	10	10/16/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS164 - 0.5'

E510142-44

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		100 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		95.4 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		100 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		95.4 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
Surrogate: n-Nonane		97.1 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	227	200	10	10/16/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS172 - 0.5'

E510142-45

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		94.8 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		94.8 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
Surrogate: n-Nonane		98.9 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	236	200	10	10/16/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS176 - 0.5'

E510142-46

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542049	
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		95.7 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		95.7 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542064	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
Surrogate: n-Nonane		96.1 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2542097	
Chloride	224	200	10	10/16/25	10/16/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/5/2025 12:33:12PM

FS181 - 0.5'

E510142-47

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Benzene	ND	0.0250	1	10/14/25	10/16/25	
Ethylbenzene	ND	0.0250	1	10/14/25	10/16/25	
Toluene	ND	0.0250	1	10/14/25	10/16/25	
o-Xylene	ND	0.0250	1	10/14/25	10/16/25	
p,m-Xylene	ND	0.0500	1	10/14/25	10/16/25	
Total Xylenes	ND	0.0250	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		87.5 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		97.1 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542049
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/25	10/16/25	
Surrogate: Bromofluorobenzene		102 %	70-130	10/14/25	10/16/25	
Surrogate: 1,2-Dichloroethane-d4		87.5 %	70-130	10/14/25	10/16/25	
Surrogate: Toluene-d8		97.1 %	70-130	10/14/25	10/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/25	10/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/25	10/15/25	
Surrogate: n-Nonane		107 %	61-141	10/15/25	10/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2542097
Chloride	236	100	5	10/16/25	10/16/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/5/2025 12:33:12PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2542049-BLK1)

Prepared: 10/14/25 Analyzed: 10/16/25

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	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.5	70-130			
Surrogate: Toluene-d8	0.472		0.500		94.4	70-130			

LCS (2542049-BS1)

Prepared: 10/14/25 Analyzed: 10/16/25

Benzene	2.23	0.0250	2.50		89.3	70-130			
Ethylbenzene	2.30	0.0250	2.50		92.0	70-130			
Toluene	2.21	0.0250	2.50		88.4	70-130			
o-Xylene	2.34	0.0250	2.50		93.4	70-130			
p,m-Xylene	4.75	0.0500	5.00		94.9	70-130			
Total Xylenes	7.08	0.0250	7.50		94.4	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.6	70-130			

Matrix Spike (2542049-MS1)

Source: E510141-04

Prepared: 10/14/25 Analyzed: 10/17/25

Benzene	2.48	0.0250	2.50	ND	99.3	48-131			
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135			
Toluene	2.46	0.0250	2.50	ND	98.2	48-130			
o-Xylene	2.63	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.36	0.0500	5.00	ND	107	43-135			
Total Xylenes	7.99	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.454		0.500		90.7	70-130			
Surrogate: Toluene-d8	0.480		0.500		95.9	70-130			

Matrix Spike Dup (2542049-MSD1)

Source: E510141-04

Prepared: 10/14/25 Analyzed: 10/17/25

Benzene	2.42	0.0250	2.50	ND	97.0	48-131	2.32	23	
Ethylbenzene	2.51	0.0250	2.50	ND	101	45-135	2.01	27	
Toluene	2.40	0.0250	2.50	ND	95.8	48-130	2.43	24	
o-Xylene	2.55	0.0250	2.50	ND	102	43-135	3.17	27	
p,m-Xylene	5.24	0.0500	5.00	ND	105	43-135	2.32	27	
Total Xylenes	7.78	0.0250	7.50	ND	104	43-135	2.60	27	
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.1	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/5/2025 12:33:12PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542053-BLK1)

Prepared: 10/14/25 Analyzed: 10/15/25

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	8.66		8.00		108	70-130			

LCS (2542053-BS1)

Prepared: 10/14/25 Analyzed: 10/15/25

Benzene	5.68	0.0250	5.00		114	70-130			
Ethylbenzene	5.61	0.0250	5.00		112	70-130			
Toluene	5.66	0.0250	5.00		113	70-130			
o-Xylene	5.60	0.0250	5.00		112	70-130			
p,m-Xylene	11.4	0.0500	10.0		114	70-130			
Total Xylenes	17.0	0.0250	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.78		8.00		110	70-130			

Matrix Spike (2542053-MS1)

Source: E510142-03

Prepared: 10/14/25 Analyzed: 10/15/25

Benzene	5.59	0.0250	5.00	ND	112	70-130			
Ethylbenzene	5.52	0.0250	5.00	ND	110	70-130			
Toluene	5.57	0.0250	5.00	ND	111	70-130			
o-Xylene	5.51	0.0250	5.00	ND	110	70-130			
p,m-Xylene	11.2	0.0500	10.0	ND	112	70-130			
Total Xylenes	16.7	0.0250	15.0	ND	111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.64		8.00		108	70-130			

Matrix Spike Dup (2542053-MSD1)

Source: E510142-03

Prepared: 10/14/25 Analyzed: 10/15/25

Benzene	5.73	0.0250	5.00	ND	115	70-130	2.54	27	
Ethylbenzene	5.66	0.0250	5.00	ND	113	70-130	2.52	26	
Toluene	5.71	0.0250	5.00	ND	114	70-130	2.43	20	
o-Xylene	5.63	0.0250	5.00	ND	113	70-130	2.10	25	
p,m-Xylene	11.5	0.0500	10.0	ND	115	70-130	2.38	23	
Total Xylenes	17.1	0.0250	15.0	ND	114	70-130	2.29	26	
Surrogate: 4-Bromochlorobenzene-PID	8.40		8.00		105	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/5/2025 12:33:12PM

Volatile Organics by EPA 8021B

Analyst: MB

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542054-BLK1)

Prepared: 10/14/25 Analyzed: 10/16/25

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	8.45		8.00		106	70-130			

LCS (2542054-BS1)

Prepared: 10/14/25 Analyzed: 10/16/25

Benzene	4.22	0.0250	5.00		84.4	70-130			
Ethylbenzene	4.19	0.0250	5.00		83.7	70-130			
Toluene	4.19	0.0250	5.00		83.8	70-130			
o-Xylene	4.18	0.0250	5.00		83.5	70-130			
p,m-Xylene	8.48	0.0500	10.0		84.8	70-130			
Total Xylenes	12.7	0.0250	15.0		84.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.42		8.00		105	70-130			

Matrix Spike (2542054-MS1)

Source: E510142-24

Prepared: 10/14/25 Analyzed: 10/16/25

Benzene	4.33	0.0250	5.00	ND	86.6	70-130			
Ethylbenzene	4.30	0.0250	5.00	ND	85.9	70-130			
Toluene	4.30	0.0250	5.00	ND	86.0	70-130			
o-Xylene	4.26	0.0250	5.00	ND	85.1	70-130			
p,m-Xylene	8.70	0.0500	10.0	ND	87.0	70-130			
Total Xylenes	13.0	0.0250	15.0	ND	86.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.30		8.00		104	70-130			

Matrix Spike Dup (2542054-MSD1)

Source: E510142-24

Prepared: 10/14/25 Analyzed: 10/16/25

Benzene	4.55	0.0250	5.00	ND	90.9	70-130	4.93	27	
Ethylbenzene	4.52	0.0250	5.00	ND	90.4	70-130	5.00	26	
Toluene	4.52	0.0250	5.00	ND	90.4	70-130	5.06	20	
o-Xylene	4.48	0.0250	5.00	ND	89.5	70-130	5.04	25	
p,m-Xylene	9.15	0.0500	10.0	ND	91.5	70-130	4.99	23	
Total Xylenes	13.6	0.0250	15.0	ND	90.8	70-130	5.01	26	
Surrogate: 4-Bromochlorobenzene-PID	8.56		8.00		107	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/5/2025 12:33:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542049-BLK1)

Prepared: 10/14/25 Analyzed: 10/16/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.5	70-130			
Surrogate: Toluene-d8	0.472		0.500		94.4	70-130			

LCS (2542049-BS2)

Prepared: 10/14/25 Analyzed: 10/16/25

Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.432		0.500		86.4	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

Matrix Spike (2542049-MS2)

Source: E510141-04

Prepared: 10/14/25 Analyzed: 10/17/25

Gasoline Range Organics (C6-C10)	53.9	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.542		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.437		0.500		87.3	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			

Matrix Spike Dup (2542049-MSD2)

Source: E510141-04

Prepared: 10/14/25 Analyzed: 10/17/25

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130	5.23	20	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.444		0.500		88.7	70-130			
Surrogate: Toluene-d8	0.484		0.500		96.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/5/2025 12:33:12PM
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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
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Blank (2542053-BLK1) Prepared: 10/14/25 Analyzed: 10/15/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.2	70-130			

LCS (2542053-BS2) Prepared: 10/14/25 Analyzed: 10/15/25

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			

Matrix Spike (2542053-MS2) Source: E510142-03 Prepared: 10/14/25 Analyzed: 10/15/25

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.7	70-130			

Matrix Spike Dup (2542053-MSD2) Source: E510142-03 Prepared: 10/14/25 Analyzed: 10/15/25

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130	2.51	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/5/2025 12:33:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: MB

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542054-BLK1) Prepared: 10/14/25 Analyzed: 10/16/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.2	70-130			

LCS (2542054-BS2) Prepared: 10/14/25 Analyzed: 10/16/25

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Matrix Spike (2542054-MS2) Source: E510142-24 Prepared: 10/14/25 Analyzed: 10/16/25

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.6	70-130			

Matrix Spike Dup (2542054-MSD2) Source: E510142-24 Prepared: 10/14/25 Analyzed: 10/16/25

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130	4.52	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/5/2025 12:33:12PM

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
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Blank (2542064-BLK1)					Prepared: 10/15/25 Analyzed: 10/15/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.6		50.0		95.2	61-141			

LCS (2542064-BS1)					Prepared: 10/15/25 Analyzed: 10/15/25				
Diesel Range Organics (C10-C28)	237	25.0	250		94.8	66-144			
Surrogate: n-Nonane	46.2		50.0		92.3	61-141			

Matrix Spike (2542064-MS1)					Source: E510142-47		Prepared: 10/15/25 Analyzed: 10/15/25		
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	56-156			
Surrogate: n-Nonane	48.0		50.0		96.1	61-141			

Matrix Spike Dup (2542064-MSD1)					Source: E510142-47		Prepared: 10/15/25 Analyzed: 10/15/25		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	56-156	1.89	20	
Surrogate: n-Nonane	49.0		50.0		98.0	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/5/2025 12:33:12PM

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
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Blank (2542065-BLK1)					Prepared: 10/15/25 Analyzed: 10/15/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.3		50.0		92.6	61-141			

LCS (2542065-BS1)					Prepared: 10/15/25 Analyzed: 10/15/25				
Diesel Range Organics (C10-C28)	249	25.0	250		99.8	66-144			
Surrogate: n-Nonane	47.1		50.0		94.3	61-141			

Matrix Spike (2542065-MS1)					Source: E510142-08		Prepared: 10/15/25 Analyzed: 10/15/25		
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	56-156			
Surrogate: n-Nonane	48.1		50.0		96.1	61-141			

Matrix Spike Dup (2542065-MSD1)					Source: E510142-08		Prepared: 10/15/25 Analyzed: 10/15/25		
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	56-156	1.37	20	
Surrogate: n-Nonane	48.6		50.0		97.3	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/5/2025 12:33:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542066-BLK1)					Prepared: 10/15/25 Analyzed: 10/15/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	61-141			

LCS (2542066-BS1)					Prepared: 10/15/25 Analyzed: 10/15/25				
Diesel Range Organics (C10-C28)	266	25.0	250		107	66-144			
Surrogate: n-Nonane	49.6		50.0		99.3	61-141			

Matrix Spike (2542066-MS1)					Source: E510142-39		Prepared: 10/15/25 Analyzed: 10/15/25		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	56-156			
Surrogate: n-Nonane	49.1		50.0		98.3	61-141			

Matrix Spike Dup (2542066-MSD1)					Source: E510142-39		Prepared: 10/15/25 Analyzed: 10/15/25		
Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	56-156	6.38	20	
Surrogate: n-Nonane	51.8		50.0		104	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/5/2025 12:33:12PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542082-BLK1)					Prepared: 10/15/25 Analyzed: 10/15/25				
Chloride	ND	20.0							
LCS (2542082-BS1)					Prepared: 10/15/25 Analyzed: 10/15/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2542082-MS1)					Source: E510142-07		Prepared: 10/15/25 Analyzed: 10/15/25		
Chloride	353	20.0	250	98.6	102	80-120			
Matrix Spike Dup (2542082-MSD1)					Source: E510142-07		Prepared: 10/15/25 Analyzed: 10/15/25		
Chloride	372	20.0	250	98.6	109	80-120	5.17	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/5/2025 12:33:12PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542083-BLK1)				Prepared: 10/15/25 Analyzed: 10/15/25					
Chloride	ND	20.0							
LCS (2542083-BS1)				Prepared: 10/15/25 Analyzed: 10/15/25					
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2542083-MS1)				Source: E510142-23		Prepared: 10/15/25 Analyzed: 10/16/25			
Chloride	358	20.0	250	107	100	80-120			
Matrix Spike Dup (2542083-MSD1)				Source: E510142-23		Prepared: 10/15/25 Analyzed: 10/16/25			
Chloride	352	20.0	250	107	98.2	80-120	1.51	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/5/2025 12:33:12PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542097-BLK1)						Prepared: 10/16/25 Analyzed: 10/16/25			
Chloride	ND	20.0							
LCS (2542097-BS1)						Prepared: 10/16/25 Analyzed: 10/16/25			
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2542097-MS1)				Source: E510141-03		Prepared: 10/16/25 Analyzed: 10/17/25			
Chloride	459	20.0	250	172	115	80-120			
Matrix Spike Dup (2542097-MSD1)				Source: E510141-03		Prepared: 10/16/25 Analyzed: 10/17/25			
Chloride	452	20.0	250	172	112	80-120	1.46	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/05/25 12:33

- 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	NM	CO	UT	TX					
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510142	2303-002				X	X								
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																
Address: 3122 National Parks Hwy				Phone: 575-988-0055																
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																
Phone: 575-988-0055				Miscellaneous:																
Email: agiovengo@ensolum.com																				
Sample Information						Analysis and Method						EPA Program								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp		Remarks	
630	10/10/2025	S	1	FS33 - 3'		1								X			3.0			
632	10/10/2025	S	1	FS34 - 3'		2								X			2.5			
634	10/10/2025	S	1	FS35 - 3'		3								X			2.4			
636	10/10/2025	S	1	FS36 - 3'		4								X			2.6			
638	10/10/2025	S	1	FS37 - 3'		5								X			2.8			
639	10/10/2025	S	1	FS38 - 3'		6								X			3.0			
640	10/10/2025	S	1	FS39 - 3'		7								X			3.4			
642	10/10/2025	S	1	FS40 - 3'		8								X			3.0			
644	10/10/2025	S	1	FS41 - 3'		9								X			3.6			
645	10/10/2025	S	1	FS42 - 3'		10								X			4.0			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																				
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Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
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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: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510142	6308-0002				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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp			Remarks
647	10/10/2025	S	1	FS43 - 3'		11								X			3.6			
648	10/10/2025	S	1	FS44 - 3'		12								X			3.4			
649	10/10/2025	S	1	FS45 - 3'		13								X			3.2			
650	10/10/2025	S	1	FS46 - 3'		14								X			3.0			
652	10/10/2025	S	1	FS47 - 3'		15								X			2.4			
654	10/10/2025	S	1	FS48 - 3'		16								X			2.0			
655	10/10/2025	S	1	FS49 - 3'		17								X			3.2			
656	10/10/2025	S	1	FS50 - 3'		18								X			3.0			
657	10/10/2025	S	1	FS51 - 3'		19								X			4.6			
659	10/10/2025	S	1	FS52 - 3'		20								X			4.2			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, igonzalezz@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																				
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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										
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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	RGDOC - NM	RGDOC - TX	SDWA	CWA	RCRA		
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp			Remarks
700	10/10/2025	S	1	FS53 - 3'		21								X			2.9			
702	10/10/2025	S	1	FS54 - 3'		22								X			2.6			
703	10/10/2025	S	1	FS55 - 3'		23								X			2.4			
705	10/10/2025	S	1	FS56 - 3'		24								X			3.2			
706	10/10/2025	S	1	FS57 - 3'		25								X			3.6			
708	10/10/2025	S	1	FS58 - 3'		26								X			3.4			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																				
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Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <u>Y/N</u>								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
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Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
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Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510142	2303.0002				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	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
730	10/10/2025	S	1	FS72 - 6"		27								X		2.4			
1304	10/10/2025	S	1	FS134 - 0.5'		28								X		2.0			
1305	10/10/2025	S	1	FS135 - 0.5'		29								X		3.2			
1306	10/10/2025	S	1	FS136 - 0.5'		30								X		3.0			
1308	10/10/2025	S	1	FS137 - 0.5'		31								X		2.8			
1330	10/10/2025	S	1	FS138 - 0.5'		32								X		2.6			
1345	10/10/2025	S	1	FS139 - 0.5'		33								X		2.4			
1332	10/10/2025	S	1	FS140 - 0.5'		34								X		3.0			
1301	10/10/2025	S	1	FS141 - 0.5'		35								X		3.0			
1310	10/10/2025	S	1	FS143 - 0.5'		36								X		2.6			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																			
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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												
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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		
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp			Remarks
1312	10/10/2025	S	1	FS144 - 0.5'		37								X			3.0			
1340	10/10/2025	S	1	FS145 - 0.5'		38								X			3.8			
1258	10/10/2025	S	1	FS146 - 0.5'		39								X			3.4			
1300	10/10/2025	S	1	FS147 - 0.5'		40								X			3.0			
1302	10/10/2025	S	1	FS148 - 0.5'		41								X			3.0			
1528	10/10/2025	S	1	FS154 - 0.5'		42								X			2.6			
1434	10/10/2025	S	1	FS163 - 0.5'		43								X			2.2			
1520	10/10/2025	S	1	FS164 - 0.5'		44								X			3.2			
1522	10/10/2025	S	1	FS172 - 0.5'		45								X			3.4			
1524	10/10/2025	S	1	FS176 - 0.5'		46								X			2.8			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																				
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Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
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Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
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Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510142	23003-002				X	X							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1526	10/10/2025	S	1	FS181 - 0.5'		47								X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																			
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Michelle Gonzalez	10-13-25	1030	Michelle Gonzalez	10-13-25	1030														
Michelle Gonzalez	10-13-25	1430	Michelle Gonzalez	10-13-25	1430														
Andrew Musso	10-13-25	1900	Andrew Musso	10-13-25	1900														
Andrew Musso	10-13-25	2330	Andrew Musso	10-14-25	800														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
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Envirotech Analytical Laboratory

Printed: 10/14/2025 10:57:59AM

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:	10/14/25 08:00	Work Order ID:	E510142
Phone:	(972) 371-5200	Date Logged In:	10/13/25 17:00	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	10/20/25 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.

Chain of Custody

Page 1 of 6

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: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510142	2303.002				X	X								
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																
Address: 3122 National Parks Hwy				Phone: 575-988-0055																
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																
Phone: 575-988-0055				Miscellaneous:																
Email: agiovengo@ensolum.com																				
Sample Information						Analysis and Method						EPA Program								
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																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp			Remarks
630	10/10/2025	S	1	FS33 - 3'		1									X		3.0			Changed sample depth
632	10/10/2025	S	1	FS34 - 3'		2									X		2.5			for sample
634	10/10/2025	S	1	FS35 - 3'		3									X		2.4			# 27.
636	10/10/2025	S	1	FS36 - 3'		4									X		2.6			Per client.
638	10/10/2025	S	1	FS37 - 3'		5									X		2.8			NS 11-5-25
639	10/10/2025	S	1	FS38 - 3'		6									X		3.0			
640	10/10/2025	S	1	FS39 - 3'		7									X		3.4			
642	10/10/2025	S	1	FS40 - 3'		8									X		3.0			
644	10/10/2025	S	1	FS41 - 3'		9									X		3.6			
645	10/10/2025	S	1	FS42 - 3'		10									X		4.0			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by: Higinio Gonzalez																				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed 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										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: ☒ Y ☐ N								
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#		1D	2D	3D	Std	NM	CO	UT	TX				
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510142					X	X							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220		Job Number													
Address: 3122 National Parks Hwy				Phone: 575-988-0055		2308-0002													
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	TCFQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
647	10/10/2025	S	1	FS43 - 3'		11								X					
648	10/10/2025	S	1	FS44 - 3'		12								X					
649	10/10/2025	S	1	FS45 - 3'		13								X					
650	10/10/2025	S	1	FS46 - 3'		14								X					
652	10/10/2025	S	1	FS47 - 3'		15								X					
654	10/10/2025	S	1	FS48 - 3'		16								X					
655	10/10/2025	S	1	FS49 - 3'		17								X					
656	10/10/2025	S	1	FS50 - 3'		18								X					
657	10/10/2025	S	1	FS51 - 3'		19								X					
659	10/10/2025	S	1	FS52 - 3'		20								X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Higinio Gonzalez																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temperature 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												
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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: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy				E51042		23008.0002					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/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			
																	Compliance	Y	or	N	
																	PWSID #				
																	Sample Temp		Remarks		
700	10/10/2025	S	1	FS53 - 3'		21								X			2.9				
702	10/10/2025	S	1	FS54 - 3'		22								X			2.6				
703	10/10/2025	S	1	FS55 - 3'		23								X			2.4				
705	10/10/2025	S	1	FS56 - 3'		24								X			3.2				
706	10/10/2025	S	1	FS57 - 3'		25								X			3.6				
708	10/10/2025	S	1	FS58 - 3'		26								X			3.4				
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																					
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Sampled by: _____ Higinio Gonzalez																					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temperature 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																					
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Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State							
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D	2D	3D	Std	NM	CO	UT	TX				
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510142					X								
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220		Job Number													
Address: 3122 National Parks Hwy				Phone: 575-988-0055		2303-0002													
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	
																Compliance	Y	or	N
																PWSID #			
																Sample Temp			Remarks
730	10/10/2025	S	1	NS FS72 - 6' 4-3-25 6'		27								X		2.4			Changed depth
1304	10/10/2025	S	1	FS134 - 0.5'		28								X		2.0			of sample
1305	10/10/2025	S	1	FS135 - 0.5'		29								X		3.2			# 27
1306	10/10/2025	S	1	FS136 - 0.5'		30								X		3.0			per client.
1308	10/10/2025	S	1	FS137 - 0.5'		31								X		2.8			NS 11-5-25
1330	10/10/2025	S	1	FS138 - 0.5'		32								X		2.0			
1345	10/10/2025	S	1	FS139 - 0.5'		33								X		2.4			
1332	10/10/2025	S	1	FS140 - 0.5'		34								X		3.0			
1301	10/10/2025	S	1	FS141 - 0.5'		35								X		3.0			
1310	10/10/2025	S	1	FS143 - 0.5'		36								X		2.6			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, imccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, ihinkle@ensolum.com, eplugge@ensolum.com																			
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Sampled by: Higinio Gonzalez																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temperature 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												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
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Client Information				Invoice Information		Lab Use Only		TAT				State								
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# <u>E510142</u>		Job Number <u>2303-002</u>				1D	2D	3D	Std	NM	CO	UT	TX	
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy												X				
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																
Address: 3122 National Parks Hwy				Phone: 575-988-0055																
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																
Phone: 575-988-0055				Miscellaneous:																
Email: agiovengo@ensolum.com																				
Sample Information										Analysis and Method						EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/OFO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	EGDOC - NM	EGDOC - TX	SDWA	CWA	RCRA		
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp		Remarks	
1312	10/10/2025	S	1	FS144 - 0.5'		37								X			3.6			
1340	10/10/2025	S	1	FS145 - 0.5'		38								X			3.8			
1258	10/10/2025	S	1	FS146 - 0.5'		39								X			3.4			
1300	10/10/2025	S	1	FS147 - 0.5'		40								X			3.0			
1302	10/10/2025	S	1	FS148 - 0.5'		41								X			3.0			
1528	10/10/2025	S	1	FS154 - 0.5'		42								X			2.6			
1434	10/10/2025	S	1	FS163 - 0.5'		43								X			2.2			
1520	10/10/2025	S	1	FS164 - 0.5'		44								X			3.2			
1522	10/10/2025	S	1	FS172 - 0.5'		45								X			3.4			
1524	10/10/2025	S	1	FS176 - 0.5'		46								X			2.8			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																				
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Sampled by: <u>Higinio Gonzalez</u>																				
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>10-13-25</u>		Time <u>1030</u>		Received by: (Signature) <u>Michelle Gonzalez</u>		Date <u>10-13-25</u>		Time <u>1030</u>		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.								
Relinquished by: (Signature) <u>Michelle Gonzalez</u>		Date <u>10-13-25</u>		Time <u>1430</u>		Received by: (Signature) <u>[Signature]</u>		Date <u>10-13-25</u>		Time <u>1430</u>										
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>10-13-25</u>		Time <u>1900</u>		Received by: (Signature) <u>Andrew Musso</u>		Date <u>10-13-25</u>		Time <u>1900</u>										
Relinquished by: (Signature) <u>Andrew Musso</u>		Date <u>10-13-25</u>		Time <u>2330</u>		Received by: (Signature) <u>Caitlin Man</u>		Date <u>10-14-25</u>		Time <u>800</u>										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other																				
Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA																				
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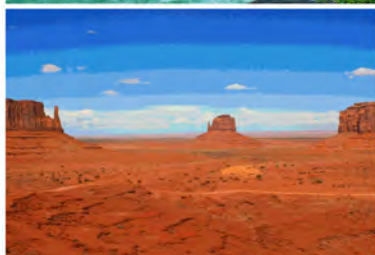


Chain of Custody

[illegible]

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dr. Ireland State 16 139 Well Pad

Work Order: E510165

Job Number: 23003-0002

Received: 10/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/22/25

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: 10/22/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E510165
Date Received: 10/16/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/16/2025 8:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/25 13:22

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS112-11'	E510165-01A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 1:22:38PM

FS112-11'

E510165-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2542093	
Benzene	ND	0.0250	1	10/16/25	10/17/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/17/25	
Toluene	ND	0.0250	1	10/16/25	10/17/25	
o-Xylene	ND	0.0250	1	10/16/25	10/17/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/17/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	10/16/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2542093	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.0 %	70-130	10/16/25	10/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2542089	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/16/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/16/25	10/17/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	10/16/25	10/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542101	
Chloride	179	20.0	1	10/16/25	10/16/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 1:22:38PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542093-BLK1)

Prepared: 10/16/25 Analyzed: 10/17/25

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	9.02		8.00		113	70-130			

LCS (2542093-BS1)

Prepared: 10/16/25 Analyzed: 10/17/25

Benzene	5.21	0.0250	5.00		104	70-130			
Ethylbenzene	5.21	0.0250	5.00		104	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.31	0.0250	5.00		106	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.9	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.23		8.00		115	70-130			

Matrix Spike (2542093-MS1)

Source: E510161-01

Prepared: 10/16/25 Analyzed: 10/17/25

Benzene	4.81	0.0250	5.00	ND	96.3	70-130			
Ethylbenzene	4.80	0.0250	5.00	ND	96.0	70-130			
Toluene	4.78	0.0250	5.00	ND	95.6	70-130			
o-Xylene	4.88	0.0250	5.00	ND	97.7	70-130			
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	70-130			
Total Xylenes	14.6	0.0250	15.0	ND	97.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.31		8.00		116	70-130			

Matrix Spike Dup (2542093-MSD1)

Source: E510161-01

Prepared: 10/16/25 Analyzed: 10/17/25

Benzene	4.85	0.0250	5.00	ND	97.0	70-130	0.703	27	
Ethylbenzene	4.86	0.0250	5.00	ND	97.2	70-130	1.18	26	
Toluene	4.82	0.0250	5.00	ND	96.4	70-130	0.869	20	
o-Xylene	4.94	0.0250	5.00	ND	98.7	70-130	1.06	25	
p,m-Xylene	9.86	0.0500	10.0	ND	98.6	70-130	1.23	23	
Total Xylenes	14.8	0.0250	15.0	ND	98.6	70-130	1.17	26	
Surrogate: 4-Bromochlorobenzene-PID	9.28		8.00		116	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/22/2025 1:22:38PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542093-BLK1) Prepared: 10/16/25 Analyzed: 10/17/25

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

LCS (2542093-BS2) Prepared: 10/16/25 Analyzed: 10/17/25

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			

Matrix Spike (2542093-MS2) Source: E510161-01 Prepared: 10/16/25 Analyzed: 10/17/25

Gasoline Range Organics (C6-C10)	59.7	20.0	50.0	ND	119	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	70-130			

Matrix Spike Dup (2542093-MSD2) Source: E510161-01 Prepared: 10/16/25 Analyzed: 10/17/25

Gasoline Range Organics (C6-C10)	59.1	20.0	50.0	ND	118	70-130	1.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 1:22:38PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542089-BLK1)

Prepared: 10/16/25 Analyzed: 10/16/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	51.6		50.0		103	61-141			

LCS (2542089-BS1)

Prepared: 10/16/25 Analyzed: 10/16/25

Diesel Range Organics (C10-C28)	278	25.0	250		111	66-144			
Surrogate: <i>n</i> -Nonane	50.4		50.0		101	61-141			

Matrix Spike (2542089-MS1)

Source: E510156-26

Prepared: 10/16/25 Analyzed: 10/16/25

Diesel Range Organics (C10-C28)	304	25.0	250	ND	122	56-156			
Surrogate: <i>n</i> -Nonane	54.8		50.0		110	61-141			

Matrix Spike Dup (2542089-MSD1)

Source: E510156-26

Prepared: 10/16/25 Analyzed: 10/16/25

Diesel Range Organics (C10-C28)	306	25.0	250	ND	122	56-156	0.558	20	
Surrogate: <i>n</i> -Nonane	55.6		50.0		111	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/22/2025 1:22:38PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542101-BLK1)					Prepared: 10/16/25 Analyzed: 10/16/25				
Chloride	ND	20.0							
LCS (2542101-BS1)					Prepared: 10/16/25 Analyzed: 10/16/25				
Chloride	263	20.0	250		105	90-110			
Matrix Spike (2542101-MS1)					Source: E510154-11		Prepared: 10/16/25 Analyzed: 10/16/25		
Chloride	5960	100	250	4820	459	80-120			M4
Matrix Spike Dup (2542101-MSD1)					Source: E510154-11		Prepared: 10/16/25 Analyzed: 10/16/25		
Chloride	5520	100	250	4820	282	80-120	7.73	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/25 13:22

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

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

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



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: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510105	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	RCEA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
840	10/14/2025	S	1	FS112 - 11'		1									X				
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@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: Jarad McCauley																			
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													
Michelle Gonzales	10-15-25	0711	Michelle Gonzales	10-15-25	0711														
Michelle Gonzales	10-15-25	1430	Marissa Gonzales	10-15-25	1430														
Marissa Gonzales	10-15-25	1915	Andrew Musso	10-15-25	1915														
Andrew Musso	10-15-25	2345	Erith Man	10-16-25	800														
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: 10/16/2025 10:16:39AM

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:	10/16/25 08:00	Work Order ID:	E510165
Phone:	(972) 371-5200	Date Logged In:	10/15/25 15:08	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/22/25 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: Dr. Ireland State 16 139 Well Pad

Work Order: E510172

Job Number: 23003-0002

Received: 10/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/22/25

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: 10/22/25



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

Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E510172
Date Received: 10/16/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/16/2025 8:00:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
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Office: 505-632-1881
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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Dr. Ireland State 16 139 Well Pad

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

10/22/25 16:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS142-0.5'	E510172-01A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS149-0.5'	E510172-02A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS150-0.5'	E510172-03A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS151-0.5'	E510172-04A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS152-0.5'	E510172-05A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS153-0.5'	E510172-06A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS155-0.5'	E510172-07A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS156-0.5'	E510172-08A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS157-0.5'	E510172-09A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS158-0.5'	E510172-10A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS159-0.5'	E510172-11A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS160-0.5'	E510172-12A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS161-0.5'	E510172-13A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS162-0.5'	E510172-14A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS165-0.5'	E510172-15A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS168-0.5'	E510172-16A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS169-0.5'	E510172-17A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS170-0.5'	E510172-18A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS171-0.5'	E510172-19A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS173-0.5'	E510172-20A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS174-0.5'	E510172-21A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS175-0.5'	E510172-22A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS177-0.5'	E510172-23A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS180-0.5'	E510172-24A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS182-0.5'	E510172-25A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS183-0.5'	E510172-26A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS184-0.5'	E510172-27A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS185-0.5'	E510172-28A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS186-0.5'	E510172-29A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS194-0.5'	E510172-30A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS195-0.5'	E510172-31A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS196-0.5'	E510172-32A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS197-0.5'	E510172-33A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS198-0.5'	E510172-34A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS199-0.5'	E510172-35A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS203-0.5'	E510172-36A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS204-0.5'	E510172-37A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS205-0.5'	E510172-38A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS212-0.5'	E510172-39A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS215-0.5'	E510172-40A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.



Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/22/25 16:11
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS216-0.5'	E510172-41A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
SW51-0-0.5'	E510172-42A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
SW52-0-0.5'	E510172-43A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.
FS214-0.5'	E510172-44A	Soil	10/14/25	10/16/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS142-0.5'

E510172-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	270	40.0	2	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS149-0.5'

E510172-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542109
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542109
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.5 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542116
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2542128
Chloride	201	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS150-0.5'

E510172-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542109
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		118 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542109
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.5 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542116
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2542128
Chloride	199	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS151-0.5'

E510172-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.3 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	218	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS152-0.5'

E510172-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.2 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	264	100	5	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS153-0.5'

E510172-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	205	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS155-0.5'

E510172-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		115 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.4 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	211	40.0	2	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS156-0.5'

E510172-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.8 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	213	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS157-0.5'

E510172-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		115 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.7 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	200	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS158-0.5'

E510172-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		114 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.1 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	210	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS159-0.5'

E510172-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		116 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.8 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	202	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS160-0.5'

E510172-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		119 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	245	100	5	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS161-0.5'

E510172-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		119 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		78.4 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	304	100	5	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS162-0.5'

E510172-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		119 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.1 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	190	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS165-0.5'

E510172-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		118 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	285	100	5	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS168-0.5'

E510172-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.9 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	222	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS169-0.5'

E510172-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		118 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.3 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	157	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS170-0.5'

E510172-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.2 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	268	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS171-0.5'

E510172-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542109
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
Surrogate: 4-Bromochlorobenzene-PID		118 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2542109
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %	70-130	10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2542116
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
Surrogate: n-Nonane		98.2 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2542128
Chloride	233	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS173-0.5'

E510172-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Benzene	ND	0.0250	1	10/16/25	10/21/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/21/25	
Toluene	ND	0.0250	1	10/16/25	10/21/25	
o-Xylene	ND	0.0250	1	10/16/25	10/21/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/21/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	119 %	70-130		10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		10/16/25	10/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542116	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
	96.3 %	61-141		10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542128	
Chloride	181	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS174-0.5'

E510172-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		115 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	290	100	5	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS175-0.5'

E510172-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	231	100	5	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS177-0.5'

E510172-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		116 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>		105 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	243	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS180-0.5'

E510172-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		115 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.6 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	228	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS182-0.5'

E510172-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.8 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
		96.1 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	167	20.0	1	10/17/25	10/17/25	



Sample Data

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name: Dr. Ireland State 16 139 Well Pad

Project Number: 23003-0002

Project Manager: Ashley Giovengo

Reported:

10/22/2025 4:11:39PM

FS183-0.5'

E510172-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		116 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>		97.5 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	187	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS184-0.5'

E510172-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		115 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.1 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
		97.9 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	170	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS185-0.5'

E510172-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		115 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.7 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	178	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS186-0.5'

E510172-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		116 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.6 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	186	40.0	2	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS194-0.5'

E510172-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	235	40.0	2	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS195-0.5'

E510172-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.3 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	220	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS196-0.5'

E510172-32

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		117 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.2 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	173	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS197-0.5'

E510172-33

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	240	100	5	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS198-0.5'

E510172-34

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		92.9 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	286	100	5	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS199-0.5'

E510172-35

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		119 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	55.6	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	343	100	5	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS203-0.5'

E510172-36

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	116 %	70-130		10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	38.4	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	280	100	5	10/17/25	10/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS204-0.5'

E510172-37

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	115 %	70-130		10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	65.5	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	286	40.0	2	10/17/25	10/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS205-0.5'

E510172-38

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	116 %	70-130		10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	41.9	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	324	100	5	10/17/25	10/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS212-0.5'

E510172-39

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.7 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	45.4	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	344	100	5	10/17/25	10/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS215-0.5'

E510172-40

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.7 %	70-130	10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2542117	
Diesel Range Organics (C10-C28)	34.6	25.0	1	10/17/25	10/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/18/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	10/17/25	10/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542129	
Chloride	255	100	5	10/17/25	10/18/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS216-0.5'

E510172-41

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542111	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542111	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.4 %	70-130		10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2542115	
Diesel Range Organics (C10-C28)	43.0	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
	94.3 %	61-141		10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542137	
Chloride	268	40.0	2	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

SW51-0-0.5'

E510172-42

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542111	
Benzene	ND	0.0250	1	10/16/25	10/18/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/18/25	
Toluene	ND	0.0250	1	10/16/25	10/18/25	
o-Xylene	ND	0.0250	1	10/16/25	10/18/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/18/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542111	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.2 %	70-130		10/16/25	10/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2542115	
Diesel Range Organics (C10-C28)	43.2	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
	93.5 %	61-141		10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542137	
Chloride	263	40.0	2	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

SW52-0-0.5'

E510172-43

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542111	
Benzene	ND	0.0250	1	10/16/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/20/25	
Toluene	ND	0.0250	1	10/16/25	10/20/25	
o-Xylene	ND	0.0250	1	10/16/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		10/16/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542111	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.5 %	70-130		10/16/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2542115	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
	93.9 %	61-141		10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542137	
Chloride	116	20.0	1	10/17/25	10/17/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/22/2025 4:11:39PM

FS214-0.5'

E510172-44

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542111	
Benzene	ND	0.0250	1	10/16/25	10/20/25	
Ethylbenzene	ND	0.0250	1	10/16/25	10/20/25	
Toluene	ND	0.0250	1	10/16/25	10/20/25	
o-Xylene	ND	0.0250	1	10/16/25	10/20/25	
p,m-Xylene	ND	0.0500	1	10/16/25	10/20/25	
Total Xylenes	ND	0.0250	1	10/16/25	10/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		10/16/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2542111	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/16/25	10/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.5 %	70-130		10/16/25	10/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2542115	
Diesel Range Organics (C10-C28)	88.5	25.0	1	10/17/25	10/17/25	
Oil Range Organics (C28-C36)	65.3	50.0	1	10/17/25	10/17/25	
<i>Surrogate: n-Nonane</i>						
	91.0 %	61-141		10/17/25	10/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: TP		Batch: 2542137	
Chloride	272	40.0	2	10/17/25	10/17/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 4:11:39PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542109-BLK1)

Prepared: 10/16/25 Analyzed: 10/21/25

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	9.14		8.00		114	70-130			

LCS (2542109-BS1)

Prepared: 10/16/25 Analyzed: 10/21/25

Benzene	5.04	0.0250	5.00		101	70-130			
Ethylbenzene	5.07	0.0250	5.00		101	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	5.17	0.0250	5.00		103	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.09		8.00		114	70-130			

Matrix Spike (2542109-MS1)

Source: E510172-04

Prepared: 10/16/25 Analyzed: 10/21/25

Benzene	4.80	0.0250	5.00	ND	96.0	70-130			
Ethylbenzene	4.81	0.0250	5.00	ND	96.3	70-130			
Toluene	4.78	0.0250	5.00	ND	95.6	70-130			
o-Xylene	4.89	0.0250	5.00	ND	97.7	70-130			
p,m-Xylene	9.76	0.0500	10.0	ND	97.6	70-130			
Total Xylenes	14.6	0.0250	15.0	ND	97.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.04		8.00		113	70-130			

Matrix Spike Dup (2542109-MSD1)

Source: E510172-04

Prepared: 10/16/25 Analyzed: 10/21/25

Benzene	4.55	0.0250	5.00	ND	91.0	70-130	5.34	27	
Ethylbenzene	4.57	0.0250	5.00	ND	91.5	70-130	5.14	26	
Toluene	4.53	0.0250	5.00	ND	90.6	70-130	5.38	20	
o-Xylene	4.64	0.0250	5.00	ND	92.8	70-130	5.13	25	
p,m-Xylene	9.28	0.0500	10.0	ND	92.8	70-130	5.03	23	
Total Xylenes	13.9	0.0250	15.0	ND	92.8	70-130	5.07	26	
Surrogate: 4-Bromochlorobenzene-PID	8.94		8.00		112	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 4:11:39PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542110-BLK1) Prepared: 10/16/25 Analyzed: 10/18/25

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	9.22		8.00		115	70-130			

LCS (2542110-BS1) Prepared: 10/16/25 Analyzed: 10/18/25

Benzene	4.95	0.0250	5.00		99.0	70-130			
Ethylbenzene	4.94	0.0250	5.00		98.7	70-130			
Toluene	4.92	0.0250	5.00		98.3	70-130			
o-Xylene	5.04	0.0250	5.00		101	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.17		8.00		115	70-130			

Matrix Spike (2542110-MS1) Source: E510172-26 Prepared: 10/16/25 Analyzed: 10/18/25

Benzene	4.84	0.0250	5.00	ND	96.8	70-130			
Ethylbenzene	4.84	0.0250	5.00	ND	96.7	70-130			
Toluene	4.81	0.0250	5.00	ND	96.3	70-130			
o-Xylene	4.93	0.0250	5.00	ND	98.6	70-130			
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	70-130			
Total Xylenes	14.7	0.0250	15.0	ND	98.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.18		8.00		115	70-130			

Matrix Spike Dup (2542110-MSD1) Source: E510172-26 Prepared: 10/16/25 Analyzed: 10/18/25

Benzene	4.90	0.0250	5.00	ND	98.0	70-130	1.23	27	
Ethylbenzene	4.90	0.0250	5.00	ND	97.9	70-130	1.22	26	
Toluene	4.87	0.0250	5.00	ND	97.4	70-130	1.11	20	
o-Xylene	5.00	0.0250	5.00	ND	100	70-130	1.51	25	
p,m-Xylene	9.92	0.0500	10.0	ND	99.2	70-130	1.15	23	
Total Xylenes	14.9	0.0250	15.0	ND	99.5	70-130	1.27	26	
Surrogate: 4-Bromochlorobenzene-PID	9.22		8.00		115	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 4:11:39PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542111-BLK1)

Prepared: 10/16/25 Analyzed: 10/18/25

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	7.35		8.00		91.9	70-130			

LCS (2542111-BS1)

Prepared: 10/16/25 Analyzed: 10/18/25

Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	4.99	0.0250	5.00		99.8	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.04	0.0250	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

Matrix Spike (2542111-MS1)

Source: E510172-42

Prepared: 10/16/25 Analyzed: 10/18/25

Benzene	4.95	0.0250	5.00	ND	98.9	70-130			
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	70-130			
Toluene	4.87	0.0250	5.00	ND	97.4	70-130			
o-Xylene	4.83	0.0250	5.00	ND	96.6	70-130			
p,m-Xylene	9.62	0.0500	10.0	ND	96.2	70-130			
Total Xylenes	14.5	0.0250	15.0	ND	96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		93.9	70-130			

Matrix Spike Dup (2542111-MSD1)

Source: E510172-42

Prepared: 10/16/25 Analyzed: 10/18/25

Benzene	5.52	0.0250	5.00	ND	110	70-130	11.0	27	
Ethylbenzene	5.34	0.0250	5.00	ND	107	70-130	11.2	26	
Toluene	5.44	0.0250	5.00	ND	109	70-130	11.1	20	
o-Xylene	5.40	0.0250	5.00	ND	108	70-130	11.2	25	
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130	11.3	23	
Total Xylenes	16.2	0.0250	15.0	ND	108	70-130	11.2	26	
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 4:11:39PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542109-BLK1) Prepared: 10/16/25 Analyzed: 10/21/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			

LCS (2542109-BS2) Prepared: 10/16/25 Analyzed: 10/21/25

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.7	70-130			

Matrix Spike (2542109-MS2) Source: E510172-04 Prepared: 10/16/25 Analyzed: 10/21/25

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			

Matrix Spike Dup (2542109-MSD2) Source: E510172-04 Prepared: 10/16/25 Analyzed: 10/21/25

Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130	9.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported: 10/22/2025 4:11:39PM
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
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Blank (2542110-BLK1) Prepared: 10/16/25 Analyzed: 10/18/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.7	70-130			

LCS (2542110-BS2) Prepared: 10/16/25 Analyzed: 10/18/25

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike (2542110-MS2) Source: E510172-26 Prepared: 10/16/25 Analyzed: 10/18/25

Gasoline Range Organics (C6-C10)	57.9	20.0	50.0	ND	116	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.1	70-130			

Matrix Spike Dup (2542110-MSD2) Source: E510172-26 Prepared: 10/16/25 Analyzed: 10/18/25

Gasoline Range Organics (C6-C10)	55.6	20.0	50.0	ND	111	70-130	3.93	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 4:11:39PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542111-BLK1) Prepared: 10/16/25 Analyzed: 10/18/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			

LCS (2542111-BS2) Prepared: 10/16/25 Analyzed: 10/18/25

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.5	70-130			

Matrix Spike (2542111-MS2) Source: E510172-42 Prepared: 10/16/25 Analyzed: 10/18/25

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			

Matrix Spike Dup (2542111-MSD2) Source: E510172-42 Prepared: 10/16/25 Analyzed: 10/18/25

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	97.1	70-130	6.32	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 4:11:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542115-BLK1)					Prepared: 10/17/25 Analyzed: 10/17/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	36.3		50.0		72.7	61-141			

LCS (2542115-BS1)					Prepared: 10/17/25 Analyzed: 10/20/25				
Diesel Range Organics (C10-C28)	220	25.0	250		87.9	66-144			
Surrogate: n-Nonane	39.8		50.0		79.7	61-141			

Matrix Spike (2542115-MS1)					Source: E510172-42		Prepared: 10/17/25 Analyzed: 10/17/25		
Diesel Range Organics (C10-C28)	287	25.0	250	43.2	97.6	56-156			
Surrogate: n-Nonane	47.3		50.0		94.6	61-141			

Matrix Spike Dup (2542115-MSD1)					Source: E510172-42		Prepared: 10/17/25 Analyzed: 10/17/25		
Diesel Range Organics (C10-C28)	288	25.0	250	43.2	98.1	56-156	0.432	20	
Surrogate: n-Nonane	47.1		50.0		94.2	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 4:11:39PM

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
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Blank (2542116-BLK1)					Prepared: 10/17/25 Analyzed: 10/17/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.3		50.0		103	61-141			

LCS (2542116-BS1)					Prepared: 10/17/25 Analyzed: 10/17/25				
Diesel Range Organics (C10-C28)	267	25.0	250		107	66-144			
Surrogate: n-Nonane	51.1		50.0		102	61-141			

Matrix Spike (2542116-MS1)					Source: E510172-03		Prepared: 10/17/25 Analyzed: 10/17/25		
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	56-156			
Surrogate: n-Nonane	53.3		50.0		107	61-141			

Matrix Spike Dup (2542116-MSD1)					Source: E510172-03		Prepared: 10/17/25 Analyzed: 10/17/25		
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	56-156	1.56	20	
Surrogate: n-Nonane	52.0		50.0		104	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 4:11:39PM

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
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Blank (2542117-BLK1)					Prepared: 10/17/25 Analyzed: 10/17/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.5		50.0		87.0	61-141			

LCS (2542117-BS1)					Prepared: 10/17/25 Analyzed: 10/17/25				
Diesel Range Organics (C10-C28)	271	25.0	250		108	66-144			
Surrogate: n-Nonane	51.6		50.0		103	61-141			

Matrix Spike (2542117-MS1)					Source: E510172-25		Prepared: 10/17/25 Analyzed: 10/17/25		
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	56-156			
Surrogate: n-Nonane	54.0		50.0		108	61-141			

Matrix Spike Dup (2542117-MSD1)					Source: E510172-25		Prepared: 10/17/25 Analyzed: 10/17/25		
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	56-156	0.695	20	
Surrogate: n-Nonane	53.7		50.0		107	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 4:11:39PM

Anions by EPA 300.0/9056A

Analyst: TP

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

Blank (2542128-BLK1)					Prepared: 10/17/25 Analyzed: 10/17/25				
Chloride	ND	20.0							
LCS (2542128-BS1)					Prepared: 10/17/25 Analyzed: 10/17/25				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2542128-MS1)					Source: E510172-10		Prepared: 10/17/25 Analyzed: 10/17/25		
Chloride	453	20.0	250	210	97.4	80-120			
Matrix Spike Dup (2542128-MSD1)					Source: E510172-10		Prepared: 10/17/25 Analyzed: 10/17/25		
Chloride	449	20.0	250	210	95.6	80-120	0.949	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 4:11:39PM

Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542129-BLK1)					Prepared: 10/17/25 Analyzed: 10/17/25				
Chloride	ND	20.0							
LCS (2542129-BS1)					Prepared: 10/17/25 Analyzed: 10/17/25				
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2542129-MS1)					Source: E510172-24		Prepared: 10/17/25 Analyzed: 10/17/25		
Chloride	510	20.0	250	228	113	80-120			
Matrix Spike Dup (2542129-MSD1)					Source: E510172-24		Prepared: 10/17/25 Analyzed: 10/17/25		
Chloride	508	20.0	250	228	112	80-120	0.230	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/2025 4:11:39PM

Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2542137-BLK1)					Prepared: 10/17/25 Analyzed: 10/17/25				
Chloride	ND	20.0							
LCS (2542137-BS1)					Prepared: 10/17/25 Analyzed: 10/17/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2542137-MS1)					Source: E510172-43		Prepared: 10/17/25 Analyzed: 10/17/25		
Chloride	375	20.0	250	116	104	80-120			
Matrix Spike Dup (2542137-MSD1)					Source: E510172-43		Prepared: 10/17/25 Analyzed: 10/17/25		
Chloride	361	20.0	250	116	97.9	80-120	3.84	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/22/25 16:11

- 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# E510172				Job Number 23003-0002				1D 2D 3D Std X							
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy												NM CO UT TX							
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				
852	10/14/2025	S	1	FS142 - 0.5'		1								X		4.0							
855	10/14/2025	S	1	FS149 - 0.5'		2								X		3.6							
854	10/14/2025	S	1	FS150 - 0.5'		3								X		4.2							
857	10/14/2025	S	1	FS151 - 0.5'		4								X		3.0							
859	10/14/2025	S	1	FS152 - 0.5'		5								X		3.4							
901	10/14/2025	S	1	FS153 - 0.5'		6								X		2.9							
941	10/14/2025	S	1	FS155 - 0.5'		7								X		2.6							
903	10/14/2025	S	1	FS156 - 0.5'		8								X		3.5							
907	10/14/2025	S	1	FS157 - 0.5'		9								X		3.5							
932	10/14/2025	S	1	FS158 - 0.5'		10								X		4.1							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@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: Jarad McCauley																							
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											
Michelle Gonzales		10-15-25		0711		Michelle Gonzales		10-15-25		0711													
Michelle Gonzales		10-15-25		1430		Michelle Gonzales		10-15-25		1430													
Michelle Gonzales		10-15-25		1915		Michelle Gonzales		10-15-25		1915													
Andrew Musso		10-15-25		2345		Andrew Musso		10-16-25		800													
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: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510172	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/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
934	10/14/2025	S	1	FS159 - 0.5'		11								X				
937	10/14/2025	S	1	FS160 - 0.5'		12								X				
936	10/14/2025	S	1	FS161 - 0.5'		13								X				
940	10/14/2025	S	1	FS162 - 0.5'		14								X				
943	10/14/2025	S	1	FS165 - 0.5'		15								X				
945	10/14/2025	S	1	FS168 - 0.5'		16								X				
1301	10/14/2025	S	1	FS169 - 0.5'		17								X				
1003	10/14/2025	S	1	FS170 - 0.5'		18								X				
1303	10/14/2025	S	1	FS171 - 0.5'		19								X				
1008	10/14/2025	S	1	FS173 - 0.5'		20								X				
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, ihinkle@ensolum.com, eplugge@ensolum.com																		
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Sampled by: Jarad McCauley																		
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										
Michelle Gonzales		10-15-25	0711	Michelle Gonzales		10-15-25	0711											
Marissa Gonzales		10-15-25	1430	Marissa Gonzales		10-15-25	1430											
Andrew Musso		10-15-25	1915	Andrew Musso		10-15-25	1915											
Andrew Musso		10-15-25	2345	Cynthia Mar		10-16-25	800											
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: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy				E510172		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/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		
																		Compliance	Y	or	N
																		PWSID #			
																		Sample Temp		Remarks	
1006	10/14/2025	S	1	FS174 - 0.5'			21								X			2.0			
1010	10/14/2025	S	1	FS175 - 0.5'			22								X			2.6			
1013	10/14/2025	S	1	FS177 - 0.5'			23								X			3.8			
1014	10/14/2025	S	1	FS180 - 0.5'			24								X			4.4			
1035	10/14/2025	S	1	FS182 - 0.5'			25								X			4.0			
1037	10/14/2025	S	1	FS183 - 0.5'			26								X			3.0			
1039	10/14/2025	S	1	FS184 - 0.5'			27								X			2.5			
1042	10/14/2025	S	1	FS185 - 0.5'			28								X			2.8			
1043	10/14/2025	S	1	FS186 - 0.5'			29								X			3.9			
1045	10/14/2025	S	1	FS194 - 0.5'			30								X			3.2			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalezz@ensolum.com, ihinkle@ensolum.com, eplugge@ensolum.com																					
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Sampled by: Jarad McCauley																					
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Michelle Gonzales		10-15-25		0711		Michelle Gonzales		10-15-25		0711											
Michelle Gonzales		10-15-25		1430		Marissa Gonzales		10-15-25		1430											
Marissa Gonzales		10-15-25		1915		Andrew Musso		10-15-25		1915											
Andrew Musso		10-15-25		2345		Caitie More		10-16-25		800											
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																					
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Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT				State									
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX						
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		F510172	23008-0002				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	TCEQ 1005 - TX	PCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA			
																	Compliance	Y	or	N	
																	PWSID #				
																	Sample Temp			Remarks	
1049	10/14/2025	S	1	FS195 - 0.5'		31								X			3.6				
1047	10/14/2025	S	1	FS196 - 0.5'		32								X			3.0				
1205	10/14/2025	S	1	FS197 - 0.5'		33								X			2.6				
1309	10/14/2025	S	1	FS198 - 0.5'		34								X			2.4				
1210	10/14/2025	S	1	FS199 - 0.5'		35								X			4.0				
1209	10/14/2025	S	1	FS203 - 0.5'		36								X			4.2				
1212	10/14/2025	S	1	FS204 - 0.5'		37								X			2.0				
1214	10/14/2025	S	1	FS205 - 0.5'		38								X			3.0				
1313	10/14/2025	S	1	FS212 - 0.5'		39								X			3.4				
1218	10/14/2025	S	1	FS215 - 0.5'		40								X			3.2				
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, igonzalezz@ensolum.com, ihinkle@ensolum.com, eplugge@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>Jarad McCauley</u>																					
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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																			
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Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX					
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510172	23003-0002				X	X								
Project Manager: Ashley Giovento				City, State, Zip: Carlsbad NM, 88220																
Address: 3122 National Parks Hwy				Phone: 575-988-0055																
City, State, Zip: Carlsbad NM, 88220				Email: agiovento@ensolum.com																
Phone: 575-988-0055				Miscellaneous:																
Email: agiovento@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	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp		Remarks	
852	10/14/2025	S	1	FS142 - 0.5'		1								X			4.0		Added	
855	10/14/2025	S	1	FS149 - 0.5'		2								X			3.6		extra	
854	10/14/2025	S	1	FS150 - 0.5'		3								X			4.2		Sample	
857	10/14/2025	S	1	FS151 - 0.5'		4								X			3.0		received	
859	10/14/2025	S	1	FS152 - 0.5'		5								X			3.4		Corrected	
901	10/14/2025	S	1	FS153 - 0.5'		6								X			2.9		Sample time	
941	10/14/2025	S	1	FS155 - 0.5'		7								X			2.6		on #40.	
903	10/14/2025	S	1	FS156 - 0.5'		8								X			3.5		per Client	
907	10/14/2025	S	1	FS157 - 0.5'		9								X			3.5		10/16/25	
932	10/14/2025	S	1	FS158 - 0.5'		10								X			4.1		CM	
Additional Instructions: Please CC: cburton@ensolum.com, agiovento@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, imccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																				
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Sampled by: Jarad McCauley																				
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																				
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Client Information				Invoice Information		Lab Use Only		TAT		State										
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Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510172	23003-0002				X									
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																
Address: 3122 National Parks Hwy				Phone: 575-988-0055																
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																
Phone: 575-988-0055				Miscellaneous:																
Email: agiovengo@ensolum.com																				
Sample Information					Analysis and Method								EPA Program							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BIGDOC - NM	BIGDOC - TX	SDWA	CWA	RCRA		
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp		Remarks	
934	10/14/2025	S	1	FS159 - 0.5'		11								X			3.6		Added	
937	10/14/2025	S	1	FS160 - 0.5'		12								X			3.2		extra	
936	10/14/2025	S	1	FS161 - 0.5'		13								X			2.8		Sample	
940	10/14/2025	S	1	FS162 - 0.5'		14								X			2.5		received	
943	10/14/2025	S	1	FS165 - 0.5'		15								X			3.0		Corrected	
945	10/14/2025	S	1	FS168 - 0.5'		16								X			1.9		sample time	
1301	10/14/2025	S	1	FS169 - 0.5'		17								X			2.0		on #40.	
1003	10/14/2025	S	1	FS170 - 0.5'		18								X			2.4		Per Client	
1303	10/14/2025	S	1	FS171 - 0.5'		19								X			3.0		10/16/25	
1008	10/14/2025	S	1	FS173 - 0.5'		20								X			3.2		CM	
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, imccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																				
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Sampled by: Jarad McCauley																				
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:								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		O/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																				
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Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510172	23003-0002				X	X								
Project Manager: Ashley Gioengo				City, State, Zip: Carlsbad NM, 88220																
Address: 3122 National Parks Hwy				Phone: 575-988-0055																
City, State, Zip: Carlsbad NM, 88220				Email: agioengo@ensolum.com																
Phone: 575-988-0055				Miscellaneous:																
Email: agioengo@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/DRG 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	
1006	10/14/2025	S	1	FS174 - 0.5'		21								X			2.0		Added	
1010	10/14/2025	S	1	FS175 - 0.5'		22								X			2.6		extra	
1013	10/14/2025	S	1	FS177 - 0.5'		23								X			3.8		Sample	
1014	10/14/2025	S	1	FS180 - 0.5'		24								X			4.4		received	
1035	10/14/2025	S	1	FS182 - 0.5'		25								X			4.0		Corrected	
1037	10/14/2025	S	1	FS183 - 0.5'		26								X			3.0		sample time	
1039	10/14/2025	S	1	FS184 - 0.5'		27								X			2.5		on #40.	
1042	10/14/2025	S	1	FS185 - 0.5'		28								X			2.8		per client	
1043	10/14/2025	S	1	FS186 - 0.5'		29								X			3.9		10/16/25	
1045	10/14/2025	S	1	FS194 - 0.5'		30								X			3.2		CM	
Additional Instructions: Please CC: cburton@ensolum.com, agioengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, imccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@ensolum.com																				
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Sampled by: Jarad McCauley																				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.								
Michelle Gonzales		10-15-25		0711		Michelle Gonzales		10-15-25		0711										
Michelle Gonzales		10-15-25		1430		Marissa Gonzales		10-15-25		1430										
Marissa Gonzales		10-15-25		1915		Andrew Musso		10-15-25		1915										
Andrew Musso		10-15-25		2345		Caitie Mave		10-16-25		800										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only								
Caitie Mave		10-15-25		2345		Caitie Mave		10-16-25		800		Received on ice:								
												Y/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										
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Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510172	23008-0002				X	X								
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																
Address: 3122 National Parks Hwy				Phone: 575-988-0055																
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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
1049	10/14/2025	S	1	FS195 - 0.5'		31								X			3.6			Added
1047	10/14/2025	S	1	FS196 - 0.5'		32								X			3.0			extra
1205	10/14/2025	S	1	FS197 - 0.5'		33								X			2.6			Sample rec
1309	10/14/2025	S	1	FS198 - 0.5'		34								X			2.4			& corrected
1210	10/14/2025	S	1	FS199 - 0.5'		35								X			4.0			sample time
1209	10/14/2025	S	1	FS203 - 0.5'		36								X			4.2			on #40.
1212	10/14/2025	S	1	FS204 - 0.5'		37								X			2.0			per client
1214	10/14/2025	S	1	FS205 - 0.5'		38								X			3.0			blow/25
1313	10/14/2025	S	1	FS212 - 0.5'		39								X			3.4			CM
1242 1218 CM	10/14/2025	S	1	FS215 - 0.5'		40								X			3.2			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, imccauley@ensolum.com, akone@ensolum.com, igonzalez@ensolum.com, ihinkle@ensolum.com, eplugge@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>Jarad McCauley</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: ☒ Y ☐ N								
<i>Jarad McCauley</i>		10-15-25		0711		<i>Michelle Gonzales</i>		10-15-25		0711										
<i>Michelle Gonzales</i>		10-15-25		1430		<i>Marissa Gonzales</i>		10-15-25		1430										
<i>Marissa Gonzales</i>		10-15-25		1915		<i>Andrew Musso</i>		10-15-25		1915										
<i>Andrew Musso</i>		10-15-25		2345		<i>Caitlin Mar</i>		10-16-25		800										
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									
Project Name: Dr. Ireland State 16 139 Well Pad				Address: 3122 National Parks Hwy		E510172	23003-0002				X									
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																
Address: 3122 National Parks Hwy				Phone: 575-988-0055																
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																
Phone: 575-988-0055				Miscellaneous:																
Email: agiovengo@ensolum.com																				
Sample Information						Analysis and Method						EPA Program								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA		
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp			Remarks
1243	10/14/2025	S	1	FS216 - 0.5'		41								X			2.6			Added
1247	10/14/2025	S	1	SW51 - 0 - 0.5'		42								X			2.0			extra
1249	10/14/2025	S	1	SW52 - 0 - 0.5'		43								X			2.8			Sample rec
12:18 10/14/25		S	1	FS214 - 0.5'		44								X			3.6			1 Corrected
																				Sample time
																				on # 40.
																				Per client
																				phases
																				Chn
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jmccauley@ensolum.com, akone@ensolum.com, jgonzalez@ensolum.com, jhinkle@ensolum.com, eplugge@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: Jarad McCauley																				
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								
Michelle Gonzales		10-15-25		0711		Michelle Gonzales		10-15-25		0711										
Michelle Gonzales		10-15-25		1430		Marissa Gonzales		10-15-25		1430										
Marissa Gonzales		10-15-25		1915		Andrew Musso		10-15-25		1915										
Andrew Musso		10-15-25		2345		Caitlin Mann		10-16-25		800										
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: 10/16/2025 12:34:26PM

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:	10/16/25 08:00	Work Order ID:	E510172
Phone:	(972) 371-5200	Date Logged In:	10/15/25 16:13	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	10/22/25 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 | No |
| 3. Were samples dropped off by client or carrier? | Yes |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes |
| 5. Were all samples received within holding time? | Yes |

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

Recieved extra sample not listed on COC. Client asked to add sample. Sample container time for sample #40 did not match sampled time on COC. Corrected COC time per client.

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: Dr. Ireland State 16 139 Well Pad

Work Order: E510358

Job Number: 23003-0002

Received: 10/30/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/31/25

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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/31/25

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



Project Name: Dr. Ireland State 16 139 Well Pad
Workorder: E510358
Date Received: 10/30/2025 6:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/30/2025 6:15:00AM, under the Project Name: Dr. Ireland State 16 139 Well Pad.

The analytical test results summarized in this report with the Project Name: Dr. Ireland State 16 139 Well Pad apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. Ireland State 16 139 Well Pad Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/31/25 11:57
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS213-0.5'	E510358-01A	Soil	10/29/25	10/30/25	Glass Jar, 2 oz.
FS214-0.5'	E510358-02A	Soil	10/29/25	10/30/25	Glass Jar, 2 oz.
FS362-0.5'	E510358-03A	Soil	10/29/25	10/30/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/31/2025 11:57:43AM

FS213-0.5'

E510358-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2544109	
Benzene	ND	0.0250	1	10/30/25	10/30/25	
Ethylbenzene	ND	0.0250	1	10/30/25	10/30/25	
Toluene	ND	0.0250	1	10/30/25	10/30/25	
o-Xylene	ND	0.0250	1	10/30/25	10/30/25	
p,m-Xylene	ND	0.0500	1	10/30/25	10/30/25	
Total Xylenes	ND	0.0250	1	10/30/25	10/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.5 %	70-130		10/30/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2544109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	10/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.2 %	70-130		10/30/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2544114	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/25	10/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/25	10/30/25	
<i>Surrogate: n-Nonane</i>	92.1 %	61-141		10/30/25	10/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2544120	
Chloride	439	40.0	2	10/30/25	10/30/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/31/2025 11:57:43AM

FS214-0.5'

E510358-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2544109	
Benzene	ND	0.0250	1	10/30/25	10/30/25	
Ethylbenzene	ND	0.0250	1	10/30/25	10/30/25	
Toluene	ND	0.0250	1	10/30/25	10/30/25	
o-Xylene	ND	0.0250	1	10/30/25	10/30/25	
p,m-Xylene	ND	0.0500	1	10/30/25	10/30/25	
Total Xylenes	ND	0.0250	1	10/30/25	10/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		10/30/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2544109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	10/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.6 %	70-130		10/30/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2544114	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/25	10/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/25	10/30/25	
<i>Surrogate: n-Nonane</i>						
	89.2 %	61-141		10/30/25	10/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2544120	
Chloride	395	40.0	2	10/30/25	10/30/25	



Sample Data

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

Project Name: Dr. Ireland State 16 139 Well Pad
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/31/2025 11:57:43AM

FS362-0.5'

E510358-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2544109	
Benzene	ND	0.0250	1	10/30/25	10/30/25	
Ethylbenzene	ND	0.0250	1	10/30/25	10/30/25	
Toluene	ND	0.0250	1	10/30/25	10/30/25	
o-Xylene	ND	0.0250	1	10/30/25	10/30/25	
p,m-Xylene	ND	0.0500	1	10/30/25	10/30/25	
Total Xylenes	ND	0.0250	1	10/30/25	10/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		10/30/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2544109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/30/25	10/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.1 %	70-130		10/30/25	10/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2544114	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/30/25	10/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/30/25	10/30/25	
<i>Surrogate: n-Nonane</i>						
	92.9 %	61-141		10/30/25	10/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2544120	
Chloride	429	40.0	2	10/30/25	10/30/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/31/2025 11:57:43AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2544109-BLK1)

Prepared: 10/30/25 Analyzed: 10/30/25

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	7.45		8.00		93.1	70-130			

LCS (2544109-BS1)

Prepared: 10/30/25 Analyzed: 10/30/25

Benzene	5.15	0.0250	5.00		103	70-130			
Ethylbenzene	4.82	0.0250	5.00		96.3	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
o-Xylene	4.90	0.0250	5.00		98.0	70-130			
p,m-Xylene	9.80	0.0500	10.0		98.0	70-130			
Total Xylenes	14.7	0.0250	15.0		98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.2	70-130			

Matrix Spike (2544109-MS1)

Source: E510359-04

Prepared: 10/30/25 Analyzed: 10/30/25

Benzene	4.94	0.0250	5.00	ND	98.8	70-130			
Ethylbenzene	4.60	0.0250	5.00	ND	91.9	70-130			
Toluene	4.80	0.0250	5.00	ND	95.9	70-130			
o-Xylene	4.69	0.0250	5.00	ND	93.8	70-130			
p,m-Xylene	9.37	0.0500	10.0	ND	93.7	70-130			
Total Xylenes	14.1	0.0250	15.0	ND	93.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.1	70-130			

Matrix Spike Dup (2544109-MSD1)

Source: E510359-04

Prepared: 10/30/25 Analyzed: 10/30/25

Benzene	5.22	0.0250	5.00	ND	104	70-130	5.63	27	
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	70-130	6.16	26	
Toluene	5.08	0.0250	5.00	ND	102	70-130	5.70	20	
o-Xylene	4.98	0.0250	5.00	ND	99.5	70-130	5.94	25	
p,m-Xylene	9.95	0.0500	10.0	ND	99.5	70-130	5.99	23	
Total Xylenes	14.9	0.0250	15.0	ND	99.5	70-130	5.98	26	
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/31/2025 11:57:43AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2544109-BLK1) Prepared: 10/30/25 Analyzed: 10/30/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

LCS (2544109-BS2) Prepared: 10/30/25 Analyzed: 10/30/25

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0		99.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.5	70-130			

Matrix Spike (2544109-MS2) Source: E510359-04 Prepared: 10/30/25 Analyzed: 10/30/25

Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.7	70-130			

Matrix Spike Dup (2544109-MSD2) Source: E510359-04 Prepared: 10/30/25 Analyzed: 10/30/25

Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.3	70-130	0.493	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/31/2025 11:57:43AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2544114-BLK1)

Prepared: 10/30/25 Analyzed: 10/30/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	43.3		50.0		86.6	61-141			

LCS (2544114-BS1)

Prepared: 10/30/25 Analyzed: 10/30/25

Diesel Range Organics (C10-C28)	253	25.0	250		101	66-144			
Surrogate: <i>n</i> -Nonane	44.1		50.0		88.3	61-141			

Matrix Spike (2544114-MS1)

Source: E510357-01

Prepared: 10/30/25 Analyzed: 10/30/25

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156			
Surrogate: <i>n</i> -Nonane	45.9		50.0		91.7	61-141			

Matrix Spike Dup (2544114-MSD1)

Source: E510357-01

Prepared: 10/30/25 Analyzed: 10/30/25

Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	56-156	2.56	20	
Surrogate: <i>n</i> -Nonane	47.2		50.0		94.3	61-141			



Matador Resources, LLC.	Project Name:	Dr. Ireland State 16 139 Well Pad	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/31/2025 11:57:43AM

Anions by EPA 300.0/9056A									Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2544120-BLK1)					Prepared: 10/30/25 Analyzed: 10/30/25				
Chloride	ND	20.0							
LCS (2544120-BS1)					Prepared: 10/30/25 Analyzed: 10/30/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2544120-MS1)					Source: E510280-01		Prepared: 10/30/25 Analyzed: 10/30/25		
Chloride	297	20.0	250	40.0	103	80-120			
Matrix Spike Dup (2544120-MSD1)					Source: E510280-01		Prepared: 10/30/25 Analyzed: 10/30/25		
Chloride	295	20.0	250	40.0	102	80-120	0.607	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:	Dr. Ireland State 16 139 Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/31/25 11:57

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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Envirotech Analytical Laboratory

Printed: 10/30/2025 9:22:14AM

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:	10/30/25 06:15	Work Order ID:	E510358
Phone:	(972) 371-5200	Date Logged In:	10/29/25 15:36	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	10/30/25 17:00 (0 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

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 429768

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 429768
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	Dr.Ireland State 16 139 Well Pad
Date Release Discovered	02/08/2025
Surface Owner	Private

Incident Details <i>Please answer all the questions in this group.</i>	
Incident Type	Other
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 <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
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	Cause: Overflow - Tank, Pit, Etc. Frac Tank Drilling Mud/Fluid Released: 42 BBL Recovered: 32 BBL Lost: 10 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 429768

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 429768
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

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

Initial Response

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

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

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

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ACKNOWLEDGMENTS

Action 429768

ACKNOWLEDGMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 429768
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☒	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☒	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.
☒	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
☒	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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Santa Fe, NM 87505

CONDITIONS

Action 429768

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 429768
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	2/9/2025

Impacted Soil	
Saturated Soil (inches)	
	0.3
	17929
Standing fluids	
inches of standing fluid	
	0
bbl estimate of standing fluids	
barrels recovered (if known)	
	32
Soil type	
	pad caliche
Spill type	
	oil/produced water
Barrel estimate in soil	
	10.6
Barrel estimate (standing fluids/ recovered+in soil)	
	42.6

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QUESTIONS

Action 430086

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 430086
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Received
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source

Please answer all the questions in this group.

Site Name	Dr.Ireland State 16 139 Well Pad
Date Release Discovered	02/08/2025
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Other
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	Not answered.
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	Cause: Overflow - Tank, Pit, Etc. Frac Tank Drilling Mud/Fluid Released: 42 BBL Recovered: 32 BBL Lost: 10 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 430086

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 430086
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

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

Initial Response

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

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

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: 02/10/2025
--	--

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QUESTIONS, Page 3

Action 430086

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 430086
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	No
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

CONDITIONS

Action 430086

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 430086
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	2/11/2025

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

QUESTIONS

Action 502019

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502019
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/08/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 502019

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502019
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/2/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/2/2025

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Oil Conservation Division
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QUESTIONS

Action 502024

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502024
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/09/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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CONDITIONS

Action 502024

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502024
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/2/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/2/2025

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 502032

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502032
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/10/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Santa Fe, NM 87505

CONDITIONS

Action 502032

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502032
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/2/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/2/2025

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS

Action 502035

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502035
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/11/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 502035

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502035
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/2/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/2/2025

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 502040

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502040
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/12/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Phone: (505) 629-6116

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CONDITIONS

Action 502040

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502040
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/2/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/2/2025

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QUESTIONS

Action 502045

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502045
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/15/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Phone: (505) 476-3441

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Phone: (505) 629-6116

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CONDITIONS

Action 502045

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502045
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/2/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/2/2025

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QUESTIONS

Action 502046

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502046
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/16/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	32.29538,-104.08944
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Phone: (505) 476-3441

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CONDITIONS

Action 502046

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502046
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/2/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/2/2025

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Oil Conservation Division
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QUESTIONS

Action 502052

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502052
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/17/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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Santa Fe, NM 87505

CONDITIONS

Action 502052

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 502052
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/2/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/2/2025

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QUESTIONS

Action 505786

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505786
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/18/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 505786

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505786
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/15/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/15/2025

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

QUESTIONS

Action 505787

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505787
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/19/2025
Time sampling will commence	09:02 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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

General Information
Phone: (505) 629-6116

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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 505787

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505787
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/15/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/15/2025

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 505788

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505788
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/22/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Santa Fe, NM 87505

CONDITIONS

Action 505788

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505788
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/15/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/15/2025

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 505789

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505789
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/23/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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CONDITIONS

Action 505789

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505789
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/15/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/15/2025

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QUESTIONS

Action 505790

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505790
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/24/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 505790

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505790
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/15/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/15/2025

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

QUESTIONS

Action 505791

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505791
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/25/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/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 505791

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505791
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/15/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/15/2025

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

QUESTIONS

Action 505792

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505792
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/26/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 505792

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 505792
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/15/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/15/2025

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 508699

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508699
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/29/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Phone: (505) 476-3441

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Phone: (505) 629-6116

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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 508699

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508699
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/24/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/24/2025

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Santa Fe, NM 87505

QUESTIONS

Action 508701

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508701
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/30/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Phone: (505) 476-3441

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Santa Fe, NM 87505

CONDITIONS

Action 508701

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508701
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/24/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/24/2025

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Oil Conservation Division
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QUESTIONS

Action 508704

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508704
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/01/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Phone: (505) 476-3441

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Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 508704

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508704
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/24/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/24/2025

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QUESTIONS

Action 508706

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508706
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/02/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Phone: (505) 476-3441

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Phone: (505) 629-6116

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State of New Mexico
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Santa Fe, NM 87505

CONDITIONS

Action 508706

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508706
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/24/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/24/2025

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

QUESTIONS

Action 508708

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508708
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/03/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 508708

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 508708
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/24/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/24/2025

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Phone: (505) 476-3441

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Phone: (505) 629-6116

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

QUESTIONS

Action 510865

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 510865
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/06/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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

CONDITIONS

Action 510865

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 510865
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/30/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/30/2025

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

QUESTIONS

Action 510869

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 510869
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/07/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 510869

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 510869
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/30/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/30/2025

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS

Action 510871

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 510871
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/08/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Santa Fe, NM 87505

CONDITIONS

Action 510871

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 510871
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/30/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/30/2025

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS

Action 510873

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 510873
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/09/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Santa Fe, NM 87505

CONDITIONS

Action 510873

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 510873
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/30/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/30/2025

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Santa Fe, NM 87505

QUESTIONS

Action 510875

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 510875
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/10/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 510875

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 510875
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/30/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/30/2025

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 513500

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 513500
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	79,956
What is the estimated number of samples that will be gathered	450
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/14/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jimmy Gonzalez @ (575) 909-3249
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 513500

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 513500
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/9/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	10/9/2025

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 519725

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 519725
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source	
Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	600
What is the estimated number of samples that will be gathered	3
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/29/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jarad McCauley @ (413) 270-1244
Please provide any information necessary for navigation to sampling site	32.29538,-104.08944

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

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CONDITIONS

Action 519725

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 519725
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/24/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	10/24/2025

From: [Velez, Nelson, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: jason.touchet@matadorresources.com; [Arsenio Jones](#); [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#)
Subject: Re: [EXTERNAL] Extension Request - Matador Production Company - Dr. Ireland State 16 139 Well Pad - Incident Number nAPP2504029640
Date: Thursday, May 8, 2025 9:04:19 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[Outlook-awv1hawi.png](#)

[**EXTERNAL EMAIL**]

Good morning Ashley,

Thank you for the correspondence. 90-day time extension request is approved.
Remediation Due date has been updated to August 7, 2025.

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

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

Have a safe and productive day!

Regards,

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



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, May 8, 2025 8:46 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Matador Production Company - Dr. Ireland State 16 139 Well Pad - Incident Number nAPP2504029640

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Thursday, May 8, 2025 8:13 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Jason Touchet <jason.touchet@matadorresources.com>; Arsenio Jones <arsenio.jones@matadorresources.com>
Cc: Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] Extension Request - Matador Production Company - Dr. Ireland State 16 139 Well Pad - Incident Number nAPP2504029640

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

All,

Matador Production Company (Matador) is requesting an extension for the current deadline of May 09, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Dr. Ireland State 16 139 Well Pad (Incident Number nAPP2504029640). The release occurred on February 08, 2025, and 42 barrels (bbls) of drilling mud were released onsite; 32 bbls of drilling mud was recovered. Ensolum has completed an initial site assessment and lateral delineation soil sampling activities. Due to ongoing fracking operations, vertical delineation soil sampling and remediation efforts within the vicinity of the spill area is not possible. Matador intends to complete vertical delineation soil sampling, excavation of the subject matter release and confirmation soil sampling activities as soon as fracking operations have been completed. Matador intends to submit a remediation work plan or closure report, following remediation and confirmation sampling efforts. Matador respectfully requests an extension until August 07, 2025.

Thanks,



Ashley Giovengo

Associate Principal

575-988-0055

Ensolum, LLC

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"Your authenticity is your superpower." – Unknown

From: [Velez, Nelson, EMNRD](#)
To: [Chad Hamilton](#)
Cc: [Ashley Giovengo](#); [Jason Touchet](#)
Subject: Re: [EXTERNAL] FW: Extension Request - Matador Production Company - Dr. Ireland State 16 139 Well Pad - Incident Number nAPP2504029640
Date: Thursday, August 7, 2025 2:37:35 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[Outlook-vft3s52o.png](#)

[**EXTERNAL EMAIL **]

Hi Chad,

Thanks for updating me on the site conditions. Your 90-day time extension is approved. Remediation Due date has been updated to November 5, 2025.

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

Regards,

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



From: Chad Hamilton <chamilton@ensolum.com>
Sent: Thursday, August 7, 2025 1:55 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@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] FW: Extension Request - Matador Production Company - Dr. Ireland State 16 139 Well Pad - Incident Number nAPP2504029640

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

Nelson,

The following email was sent August 5, 2025. Please let me know if you have any questions.

From: Chad Hamilton

Sent: Tuesday, August 5, 2025 9:02 AM

To: Velez, Nelson, EMNRD <nelson.velez@emnrd.nm.gov>; Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov>

Cc: Ashley Giovengo <agiovengo@ensolum.com>; Jason Touchet <jason.touchet@matadorresources.com>

Subject: Extension Request - Matador Production Company - Dr. Ireland State 16 139 Well Pad - Incident Number nAPP2504029640

All,

Matador Production Company (Matador) is requesting an extension of the current deadline of August 7, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Dr. Ireland State 16 139 Well Pad (Site) (Incident Number nAPP2504029640). The release occurred on February 8, 2025, and approximately 42 barrels (bbls) of drilling mud were released onto the pad surface; 32 bbls were recovered. Due to the presence of equipment during drilling and completion activities, Ensolum personnel have been unable to complete delineation soil sampling activities. On August 1, 2025, Ensolum personnel completed lateral and vertical delineation soil sampling within and around the release extent with a hand auger and backhoe. Ensolum personnel collected discrete delineation soil samples from potholes (PH01 through PH07) at depths ranging from 2 feet below ground surface (bgs) to 15 feet bgs. All delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chain-of-custody procedures to Envirotech Analysis Laboratory (Envirotech) in Farmington, New Mexico. Discrete delineation soil samples will be analyzed for 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. Final analytical results from delineation soil sampling activities are pending and once received, Ensolum personnel will complete a scope of work for remediation of the subject matter release. Matador intends to return to the Site in order to complete excavation activities in accordance with the Site Closure Criteria and respectfully requests a 90-day extension until November 5, 2025. Matador will submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation sampling activities. Please let me know if you have any further questions regarding this site.

Thanks,



Chad Hamilton

Project Geologist

940-923-0072

Ensolum, LLC

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

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

QUESTIONS

Action 523971

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 523971
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2504029640
Incident Name	NAPP2504029640 DR.IRELAND STATE 16 139 WELL PAD @ 30-015-55326
Incident Type	Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-55326] DR IRELAND STATE 16 #139H

Location of Release Source

Please answer all the questions in this group.

Site Name	DR.IRELAND STATE 16 139 WELL PAD
Date Release Discovered	02/08/2025
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Other
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	Not answered.
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	Cause: Overflow - Tank, Pit, Etc. Frac Tank Drilling Mud/Fluid Released: 42 BBL Recovered: 32 BBL Lost: 10 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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Oil Conservation Division
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QUESTIONS, Page 2

Action 523971

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 523971
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

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

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: 11/06/2025
--	--

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Phone: (505) 476-3441

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QUESTIONS, Page 3

Action 523971

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 523971
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1000 (ft.) and ½ (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3240
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	9370
GRO+DRO (EPA SW-846 Method 8015M)	9370
BTEX (EPA SW-846 Method 8021B or 8260B)	4
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	09/15/2025
On what date will (or did) the final sampling or liner inspection occur	10/29/2025
On what date will (or was) the remediation complete(d)	10/29/2025
What is the estimated surface area (in square feet) that will be reclaimed	80189
What is the estimated volume (in cubic yards) that will be reclaimed	13126
What is the estimated surface area (in square feet) that will be remediated	80189
What is the estimated volume (in cubic yards) that will be remediated	13126
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 523971

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 523971
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Lea Landfill LLC
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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: 11/06/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 5

Action 523971

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 523971
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
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 523971

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 523971
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	519725
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/29/2025
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	80189
What was the total volume (cubic yards) remediated	13126
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	80189
What was the total volume (in cubic yards) reclaimed	13126
Summarize any additional remediation activities not included by answers (above)	"The release extent has been laterally defined in accordance with the strictest Closure Criteria by delineation soil samples SS01 through SS09, collected at ground surface and 1-foot bgs, and sidewall soil samples SW01 through SW04, SW07 through SW09, SW13, SW29 through SW32, SW35, SW36, SW40, SW41, SW47, SW48, SW51, and SW52, collected at depths ranging from ground surface to 9 feet bgs. The release extent has been vertically defined in accordance with the strictest Closure Criteria by delineation potholes PH01 through PH07, collected at depths ranging from 1-foot bgs to 11 feet bgs, and confirmation excavation floor samples FS01 through FS406, collected at depths ranging from 0.5 feet bgs and 11 feet bgs, which were all in compliance with the Strictest Closure Criteria. Based on the remedial actions completed to date, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2504029640. "
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 11/06/2025

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Action 523971

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 523971
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 523971

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 523971
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	1/2/2026