



May 23, 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
Big Bucks Fed Com 501
Incident Number nAPP2117649736
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the Big Bucks Fed Com 501(Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2117649736.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 12, Township 21 South, Range 32 East, in Lea County, New Mexico (32.500421°, -103.621775°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 25, 2021, a pipeline failure resulted in the release of approximately 20 barrels (bbls) of produced water onto the caliche pad. A vacuum truck successfully recovered 15 bbls of produced water. The former operator, Ascent Energy, LLC, reported the release to the New Mexico Oil Conservation Division (NMOCD) on June 25, 2021, and subsequently the release was assigned Incident Number nAPP2117649736. Matador submitted a Release Notification Form C-141 (Form C-141) via NMOCD web portal on March 19, 2025, and the Form C-141 can be referenced on the NMOCD Portal.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well, CP-02032 POD1, located within a 0.5-mile radius of the Site. The well

had a reported depth to groundwater greater than 105 feet below ground surface (bgs) and a total depth of 105 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 0.52 miles southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On January 27, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Due to the lack of documentation of the original release extent for the June 2021 release, 15 preliminary soil samples (SS01 through SS15) were collected on-pad at ground surface to assess the footprint of the impacted area. Ensolum personnel returned to the Site on February 13, 2025, to advance delineation soil sample locations within the impacted area footprint. Soil samples SS01 through SS03, SS06 through SS08, and SS13 through SS14 were advanced via backhoe for vertical delineation. Potholes PH01 and PH08 were advanced to a depth of 3 feet bgs and potholes PH02, PH03, PH06 through PH08, PH13, and PH14 were advanced to a depth of 2 feet bgs. On February 20 and 24, 2025, Ensolum personnel collected six lateral delineation soil samples SS16 through SS21 to assess the lateral extent of the release. Lateral soil samples SS16 through SS21 were collected at ground surface and 1-foot bgs.

The preliminary soil samples (SS01 through SS15) were field screened for chloride utilizing Mohr Method titration. Potholes PH01 through PH08, PH13, and PH14 were field screened for chloride utilizing Hach® Chloride QuanTab® test strips and volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID). Assessment soil samples SS16 through SS21 were field screened for chloride utilizing Hach® Chloride QuanTab® test strips and for TPH utilizing a PetroFLAG® soil analyzer system. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation of delineation activities is included in Appendix B. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chain-of-custody procedures to Envirotech Analysis Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Beginning on March 25, 2025, through March 28, 2025, Ensolum personnel were onsite to conduct confirmation soil sampling activities. Ensolum personnel returned to the Site on April 09, 2025, to oversee the excavation of impacted soil from the release area as indicated by visible staining and delineation soil sampling results. Excavation activities were performed using a loader, backhoe, and belly dump trucks. To direct excavation activities, Ensolum personnel screened soil for chloride utilizing chloride QuanTab® test strips and for TPH utilizing a PetroFLAG® soil analyzer system.

Following the removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 400 square feet from the floor of the scrape. A confirmation sampling variance request was submitted on March 20, 2025, to increase the sampling area to every 400 square feet from the floor of the excavation and every 200 square feet from the sidewalls of the excavation, where applicable. The confirmation sampling variance request was approved via email on March 20, 2025 (see Appendix E).

The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS227) were collected from the floor of the excavation at depths ranging from ground surface to 1.5 feet bgs. Due to the shallow nature of the excavation, the sidewall soil samples were incorporated into the floor confirmation samples. 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 90,724 square feet. A total of approximately 393 cubic yards of impacted soil was removed during the excavation activities and hauled to Lea Land Disposal Facility in Carlsbad, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS04, SS05, SS09 through SS12, and SS15 through SS21 were all in compliance with the Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I at ground surface. Laboratory analytical results for lateral delineation soil samples and potholes PH02, PH03, PH06 through PH08, PH13, and PH14 were all in compliance with the Site Closure at ground surface and in compliance with the strictest Closure Criteria at a depth of 1-foot bgs; Pothole PH03 was in compliance with the strictest Closure Criteria at a depth of 2 feet bgs.

Laboratory analytical results for excavation floor soil samples FS01 through FS227 indicated all COC concentrations were compliant with the Site Closure Criteria at depths ranging from ground surface to 1.5 feet bgs. Laboratory analytical results are summarized in Tables 1 and 2, the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the June 2021 release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were in compliance with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Excavation of impacted and waste-containing soil has mitigated adverse conditions at this Site. Depth to groundwater has been estimated to be greater than 105 feet bgs and no other sensitive receptors were identified near the release extent. Matador believes these remedial actions are protective of human health, the environment, and groundwater. As such, Matador respectfully requests closure for Incident Number nAPP2117649736.

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

Sincerely,
Ensolum, LLC



Ashley Giovengo
Associate Principal



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





Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Soil Samples)
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications







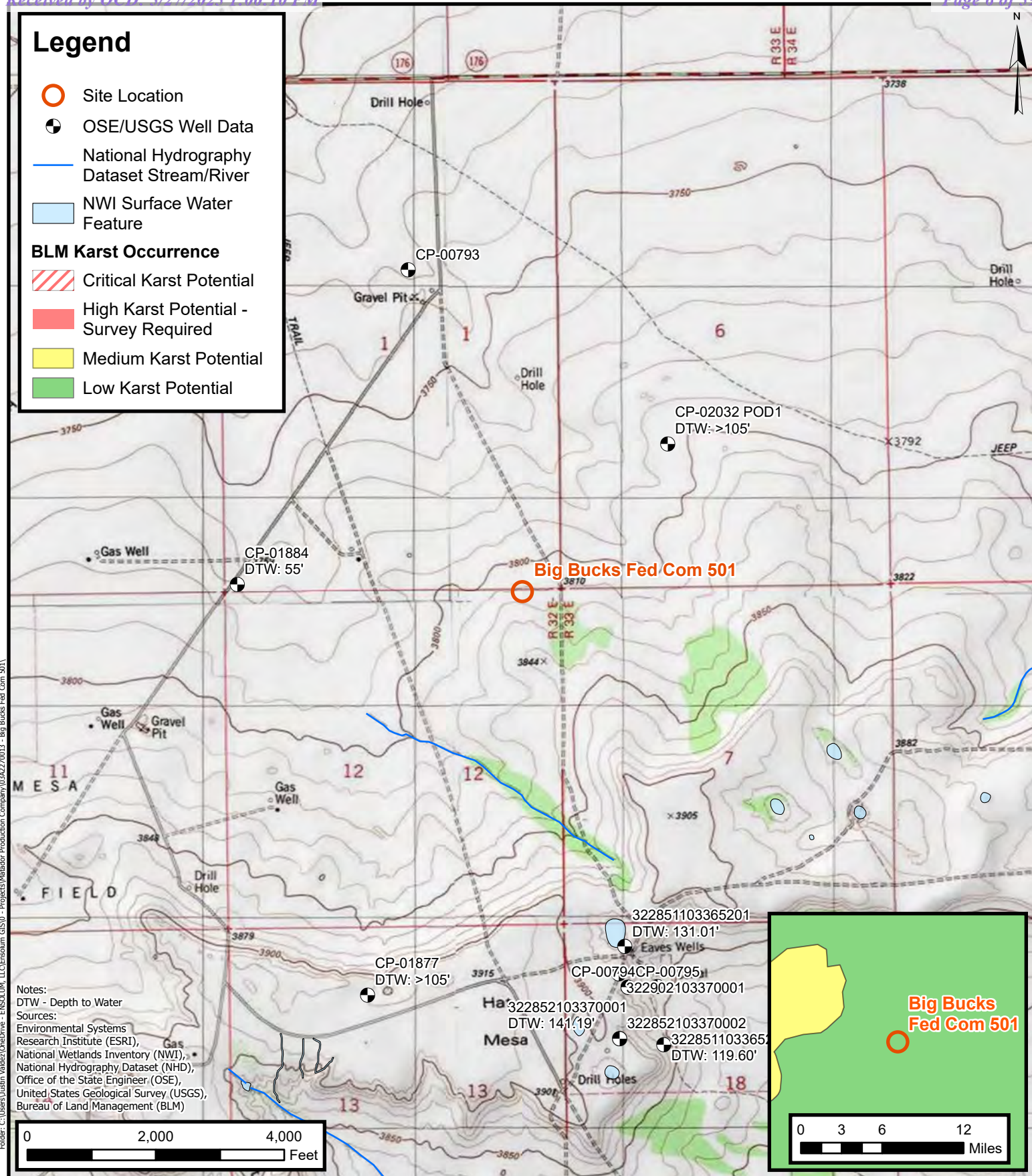
FIGURES

Legend

-  Site Location
-  OSE/USGS Well Data
-  National Hydrography Dataset Stream/River
-  NWI Surface Water Feature

BLM Karst Occurrence

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



Notes:
DTW - Depth to Water
Sources:
Environmental Systems
Research Institute (ESRI),
National Wetlands Inventory (NWI),
National Hydrography Dataset (NHD),
Office of the State Engineer (OSE),
United States Geological Survey (USGS),
Bureau of Land Management (BLM)



ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Site Receptor Map

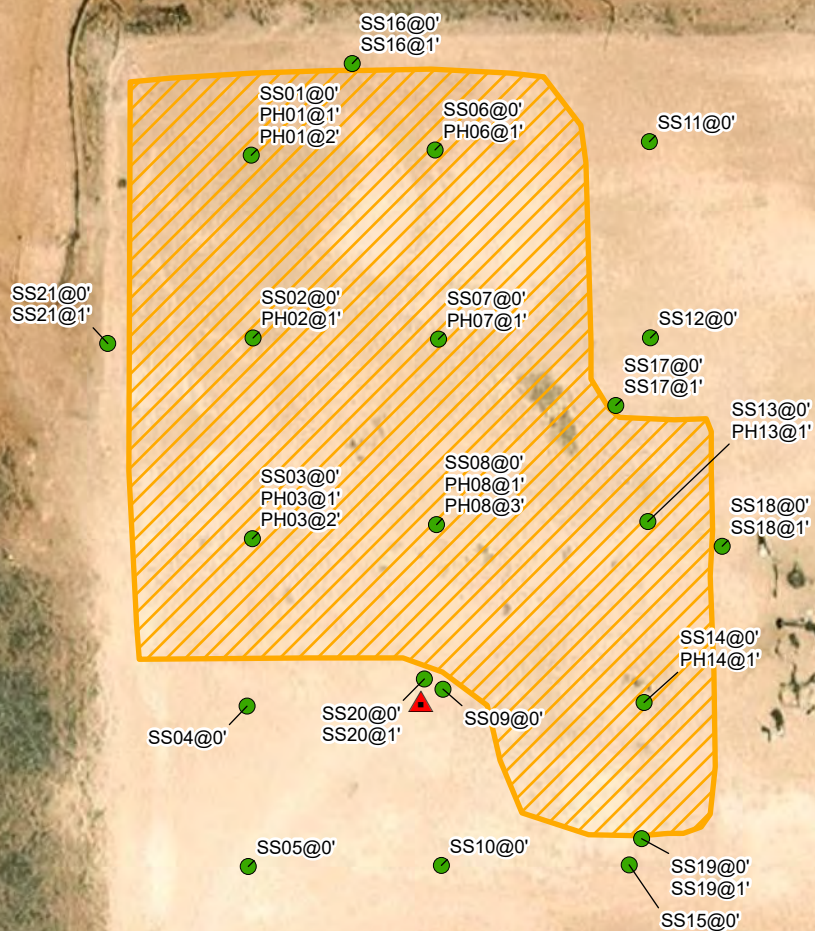
Matador Production Company
Big Bucks Fed Com 501
Incident Number: nAPP2117649736
Unit A, Section 12, T 21S, R 32E
Lea County, New Mexico

FIGURE

1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- ▨ Produced Water



Notes:
Sample ID @ Depth Below Ground Surface.

0 25 50 100 150 200
Feet

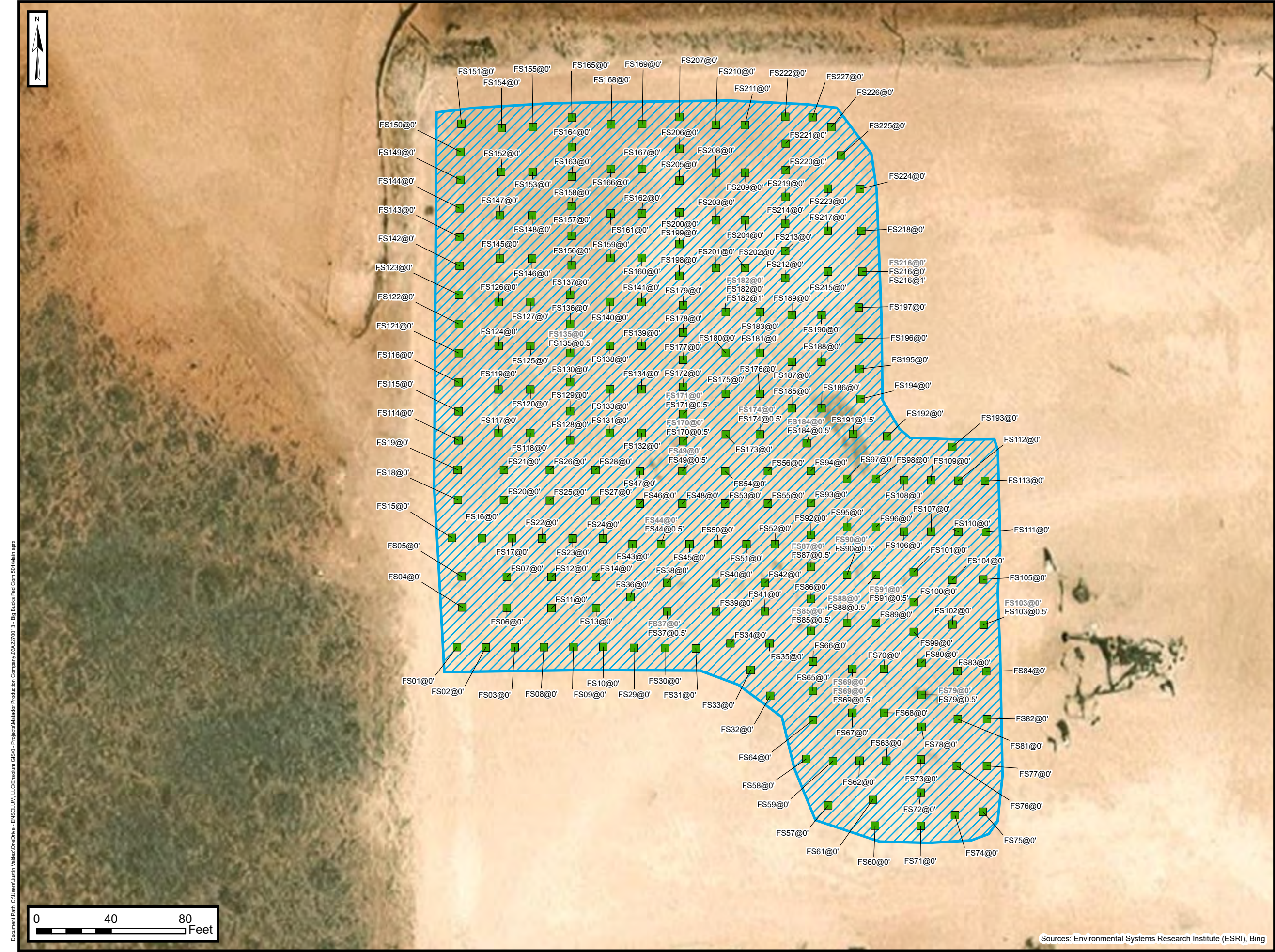
Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

Matador Production Company
Big Bucks Fed Com 501
Incident Number: nAPP2117649736
Unit A, Section 12, T 21S, R 32E
Lea County, New Mexico

FIGURE
2



Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Extent

Notes:

Sample ID @ Depth Below Ground Surface.

Samples in bold indicate sample exceeded applicable closure criteria.

Grey text indicate soil sample was removed during excavation activities.

**Confirmation
Sample Locations**

Matador Production Company
Big Bucks Fed Com 501
Incident Number: nAPP2117649736
Unit A, Section 12, T 21S, R 32E
Lea County, New Mexico

FIGURE

3

**ENSOLUM**
Environmental, Engineering and
Hydrogeologic Consultants

Sources: Environmental Systems Research Institute (ESRI), Bing



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Big Bucks Fed Com 501
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	1/27/2025	0	<0.0250	<0.0500	<20.0	245	127.0	245	372	38.2
PH01	2/13/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
PH01	2/13/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS02	1/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,000
PH02	2/13/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	154
SS03	1/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	666
PH03	2/13/2025	1	<0.0250	<0.0500	<20.0	53	61.8	53	115	240
PH03	2/13/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	137
SS04	1/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	139
SS05	1/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	80.4
SS06	1/27/2025	0	<0.0250	<0.0500	<20.0	111	122	111	233	804
PH06	2/13/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS07	1/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	828
PH07	2/13/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	178
SS08	1/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,260
PH08	2/13/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	549
PH08	2/13/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	242
SS09	1/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	385
SS10	1/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	349
SS11	1/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	108
SS12	1/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	430
SS13	1/27/2025	0	<0.0250	<0.0500	<20.0	97.7	130.0	97.7	228	1,090
PH13	2/13/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	71.2
SS14	1/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,230
PH14	2/13/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	334
SS15	1/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	317
SS16	2/20/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	206
SS16	2/24/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	82.1
SS17	2/20/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	190
SS17	2/24/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	220
SS18	2/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	302
SS18	2/24/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	225



TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Big Bucks Fed Com 501
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS19	2/20/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	234
SS19	2/24/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	165
SS20	2/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	204
SS20	2/24/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	318
SS21	2/24/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	87.3
SS21	2/24/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	34.1

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
 Big Bucks Fed Com 501
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples										
FS01	3/27/2025	0	<0.0250	<0.0500	<20.0	30.0	<50.0	30.0	30.0	365
FS02	3/27/2025	0	<0.0250	<0.0500	<20.0	90.7	224	90.7	314.7	444
FS03	3/27/2025	0	<0.0250	<0.0500	<20.0	27.7	<50.0	27.7	27.7	560
FS04	3/27/2025	0	<0.0250	<0.0500	<20.0	63.1	208.0	63.1	271.1	610
FS05	3/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,690
FS06	3/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	708
FS07	3/27/2025	0	<0.0250	<0.0500	<20.0	44.5	<50.0	44.5	44.5	1,650
FS08	3/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,390
FS09	3/27/2025	0	<0.0250	<0.0500	<20.0	33.2	52.9	33.2	86.1	1,380
FS10	3/27/2025	0	<0.0250	<0.0500	<20.0	33.2	50.9	33.2	84.1	6,470
FS11	3/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	938
FS12	3/27/2025	0	<0.0250	<0.0500	<20.0	33.0	<50.0	33.0	33.0	1,760
FS13	3/27/2025	0	<0.0250	<0.0500	<20.0	283	380.0	283	663	1,920
FS14	3/27/2025	0	<0.0250	<0.0500	<20.0	28.8	<50.0	28.8	28.8	4,270
FS15	3/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,080
FS16	3/27/2025	0	<0.0250	<0.0500	<20.0	222	253.0	222	475	815
FS17	3/27/2025	0	<0.0250	<0.0500	<20.0	189	161	189	350	657
FS18	3/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,310
FS19	3/27/2025	0	<0.0250	<0.0500	<20.0	26.3	<50.0	26.3	26	4,020
FS20	3/27/2025	0	<0.0250	<0.0500	<20.0	34.6	51	34.6	85.6	2,370
FS21	3/27/2025	0	<0.0250	<0.0500	<20.0	35.6	61.8	35.6	97.4	6,730
FS22	3/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,210
FS23	4/10/2025	0	<0.0250	<0.0500	<20.0	76.8	60.2	76.8	137	2,130
FS24	4/10/2025	0	<0.0250	<0.0500	<20.0	27.5	<50.0	27.5	27.5	4,410
FS25	4/10/2025	0	<0.0250	<0.0500	<20.0	51.5	<50.0	51.5	51.5	1,460
FS26	4/10/2025	0	<0.0250	<0.0500	<20.0	42.6	<50.0	42.6	42.6	1,730
FS27	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,800
FS28	4/10/2025	0	<0.0250	<0.0500	<20.0	53.7	<50.0	53.7	53.7	6,690
FS29	4/10/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,530
FS30	4/10/2025	0	<0.0250	<0.0500	<20.0	662	235	662	897	2,540
FS31	3/27/2025	0	<0.0250	<0.0500	<20.0	61.4	102	61.4	163	3,160
FS32	3/25/2025	0	<0.0250	<0.0500	<20.0	157	310	157	467	3,040
FS33	4/10/2025	0	<0.0250	<0.0500	<20.0	158	207	158	365	1,970

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Big Bucks Fed Com 501
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples										
FS34	4/10/2025	0	<0.0250	<0.0500	<20.0	129	178	129	307	3,370
FS35	4/10/2025	0	<0.0250	<0.0500	<20.0	77.0	82.9	77.0	160	3,610
FS36	3/27/2025	0	<0.0250	<0.0500	<20.0	122	217	122	339	2,740
FS37	4/10/2025	0	<0.0250	<0.0500	<20.0	1,380	489.0	1,380	1,869	2,480
FS37	4/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,500
FS38	4/10/2025	0	<0.0250	<0.0500	<20.0	383	262	383	645	1,960
FS39	3/27/2025	0	<0.0250	<0.0500	<20.0	78.5	109	78.5	188	2,320
FS40	4/10/2025	0	<0.0250	<0.0500	<20.0	509	219	509	728	2,580
FS41	4/10/2025	0	<0.0250	<0.0500	<20.0	727	811	727	1,538	3,620
FS42	4/11/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	851
FS43	4/11/2025	0	<0.0250	<0.0500	<20.0	33.3	<50.0	33.3	<50.0	600
FS44	4/11/2025	0	<0.0250	<0.0500	<20.0	1,080	679.0	1,080	1,759.0	2,240
FS44	4/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,550
FS45	4/10/2025	0	<0.0250	<0.0500	<20.0	329	293	329	622	3,420
FS46	4/10/2025	0	<0.0250	<0.0500	<20.0	504	134	504	638	1,940
FS47	4/10/2025	0	<0.0250	<0.0500	<20.0	796	70.3	796	866	2,480
FS48	4/10/2025	0	<0.0250	<0.0500	<20.0	615	65.1	615	680	922
FS49	4/10/2025	0	<0.0250	<0.0500	<20.0	2,120	246	2,120	2,366	1,300
FS49	4/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	235
FS50	3/27/2025	0	<0.0250	<0.0500	<20.0	96.7	77.4	96.7	174	5,790
FS51	4/10/2025	0	<0.0250	<0.0500	<20.0	274	114	274	388	2,690
FS52	4/10/2025	0	<0.0250	<0.0500	<20.0	113	72.2	113	185	1,050
FS53	4/10/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,260
FS54	4/10/2025	0	<0.0250	<0.0500	<20.0	131	70.8	131	202	1,330
FS55	4/10/2025	0	<0.0250	<0.0500	<20.0	433	187	433	620	1,970
FS56	4/10/2025	0	<0.0250	<0.0500	<20.0	796	575	796	1,371	2,680
FS57	3/25/2025	0	<0.0250	<0.0500	<20.0	54.8	123	54.8	178	216
FS58	3/25/2025	0	<0.0250	<0.0500	<20.0	76.9	167	76.9	243.9	828
FS59	3/25/2025	0	<0.0250	<0.0500	<20.0	238	274	238	512	2,540
FS60	3/25/2025	0	<0.0250	<0.0500	<20.0	112	284	112	396	821
FS61	3/25/2025	0	<0.0250	<0.0500	<20.0	86.5	173	86.5	260	1,490
FS62	3/25/2025	0	<0.0250	<0.0500	<20.0	900	382	900	1,282	3,090
FS63	3/25/2025	0	<0.0250	<0.0500	<20.0	514	447	514	961	1,810

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Big Bucks Fed Com 501
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples										
FS64	3/25/2025	0	<0.0250	<0.0500	<20.0	361	644	361	1,005	2,960
FS65	3/25/2025	0	<0.0250	<0.0500	<20.0	153	335	153	488	2,060
FS66	3/25/2025	0	<0.0250	<0.0500	<20.0	216	465	216	681	3,970
FS67	3/25/2025	0	<0.0250	<0.0500	<20.0	339	580	339	919	4,360
FS68	3/27/2025	0	<0.0250	<0.0500	<20.0	88.5	128.0	88.5	216.5	4,590
FS69	3/25/2025	0	<0.0250	<0.0500	<20.0	6,070	14,100	6,070	20,170	1,180
FS69	4/10/2025	0	<0.0250	<0.0500	<20.0	4,450	8,530	4,450	12,980	1,830
FS69	4/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	537
FS70	3/25/2025	0	<0.0250	<0.0500	<20.0	38.4	58.9	38.4	97.3	4,230
FS71	3/25/2025	0	<0.0250	<0.0500	<20.0	34.8	76.6	34.8	111	155
FS72	3/25/2025	0	<0.0250	<0.0500	<20.0	127	207	127	334	2,780
FS73	4/10/2025	0	<0.0250	<0.0500	<20.0	302	325	302	627	1,430
FS74	3/25/2025	0	<0.0250	<0.0500	<20.0	191	179	191	370	1,730
FS75	3/25/2025	0	<0.0250	<0.0500	<20.0	97.5	168	97.5	265.5	1,290
FS76	3/25/2025	0	<0.0250	<0.0500	<20.0	652	691	652	1,343	3,570
FS77	3/25/2025	0	<0.0250	<0.0500	<20.0	174	248	174	422	2,180
FS78	3/25/2025	0	<0.0250	<0.0500	<20.0	340	437	340	777	5,530
FS79	4/10/2025	0	<0.0250	<0.0500	<20.0	917	2,070	917	2,987	865
FS79	4/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,120
FS80	3/25/2025	0	<0.0250	<0.0500	<20.0	433	683	433	1,116	4,880
FS81	4/10/2025	0	<0.0250	<0.0500	<20.0	457	665	457	1,122	872
FS82	3/25/2025	0	<0.0250	<0.0500	<20.0	419	207	419	629	7,460
FS83	3/25/2025	0	<0.0250	<0.0500	<20.0	339	369	339	735	2,590
FS84	3/25/2025	0	<0.0250	<0.0500	<20.0	217	217	217	434	5,910
FS85	4/10/2025	0	<0.0250	<0.0500	<20.0	1,380	6,360	1,380	7,740	726
FS85	4/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,950
FS86	4/10/2025	0	<0.0250	<0.0500	<20.0	181	636	181	817	1,300
FS87	4/10/2025	0	<0.0250	<0.0500	<20.0	748	2,180	748	2,928	1,340
FS87	4/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,840
FS88	4/10/2025	0	<0.0250	<0.0500	<20.0	1,530	2,840	1,530	4,370	1,590
FS88	4/28/2025	0.5	<0.0250	<0.0500	<20.0	454	546	1,000	1,000	2,870
FS89	4/10/2025	0	<0.0250	<0.0500	<20.0	349	603	349	952	3,110

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Big Bucks Fed Com 501
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples										
FS90	4/10/2025	0	<0.0250	<0.0500	<20.0	1,670	3,140	1,670	4,810	992
FS90	4/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	59.4	36.9	96.3	1,610
FS91	4/10/2025	0	<0.0250	<0.0500	<20.0	1,730	3,290	1,730	5,020	1,670
FS91	4/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	664
FS92	3/27/2025	0	<0.0250	<0.0500	<20.0	399	598.0	399	997	2,330
FS93	4/10/2025	0	<0.0250	<0.0500	<20.0	46.9	109	46.9	156	405
FS94	4/10/2025	0	<0.0250	<0.0500	<20.0	346	213	346	559	2,470
FS95	3/25/2025	0	<0.0250	<0.0500	<20.0	338	450	338	788	2,120
FS96	3/25/2025	0	<0.0250	<0.0500	<20.0	349	305	349	654	4,890
FS97	3/25/2025	0	<0.0250	<0.0500	<20.0	519	411	519	930	4,140
FS98	4/11/2025	0	<0.0250	<0.0500	<20.0	184	<50.0	184	<50.0	863
FS99	3/25/2025	0	<0.0250	<0.0500	<20.0	289	605	289	894	3,040
FS100	4/10/2025	0	<0.0250	<0.0500	<20.0	66.7	135	66.7	202	2,800
FS101	3/25/2025	0	<0.0250	<0.0500	<20.0	413	875	413	1,288	2,740
FS102	4/10/2025	0	<0.0250	<0.0500	<20.0	156	237	156	393	1,170
FS103	4/10/2025	0	<0.0250	<0.0500	<20.0	1,880	3,270	1,880	5,150	2,810
FS103	4/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	309
FS104	4/10/2025	0	<0.0250	<0.0500	<20.0	34.5	<50.0	34.5	34.5	1,710
FS105	4/10/2025	0	<0.0250	<0.0500	<20.0	142	195	142	337	1,610
FS106	3/25/2025	0	<0.0250	<0.0500	<20.0	394	580	394	974	3,440
FS107	3/25/2025	0	<0.0250	<0.0500	<20.0	243	306	243	549	4,060
FS108	3/25/2025	0	<0.0250	<0.0500	<20.0	710	516	710	1,226	2,710
FS109	3/25/2025	0	<0.0250	<0.0500	<20.0	487	550	487	1,037	2,090
FS110	3/25/2025	0	<0.0250	<0.0500	<20.0	184	285	184	469	7,090
FS111	3/25/2025	0	<0.0250	<0.0500	<20.0	119	145	119	264	3,630
FS112	3/25/2025	0	<0.0250	<0.0500	<20.0	106	109	106	215	1,440
FS113	3/25/2025	0	<0.0250	<0.0500	<20.0	170	232	170	402	3,880
FS114	3/27/2025	0	<0.0250	<0.0500	<20.0	28.9	<50.0	28.9	28.9	3,190
FS115	3/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	928
FS116	3/27/2025	0	<0.0250	<0.0500	<20.0	31.2	<50.0	31.2	31.2	3,830
FS117	3/27/2025	0	<0.0250	<0.0500	<20.0	41.8	65.8	41.8	108	5,080
FS118	4/10/2025	0	<0.0250	<0.0500	<20.0	129	76.6	129	206	2,120



TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Big Bucks Fed Com 501
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples										
FS119	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,780
FS120	4/10/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	8,260
FS121	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	563
FS122	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,260
FS123	3/27/2025	0	<0.0250	<0.0500	<20.0	37.5	<50.0	37.5	37.5	3,380
FS124	3/27/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,960
FS125	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,030
FS126	3/27/2025	0	<0.0250	<0.0500	<20.0	50.7	89.5	50.7	140.2	3,910
FS127	4/10/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,010
FS128	4/10/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,180
FS129	4/11/2025	0	<0.0250	<0.0500	<20.0	38.8	<50.0	38.8	<50.0	7,820
FS130	4/10/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,980
FS131	4/10/2025	0	<0.0250	<0.0500	<20.0	55.1	<50.0	55.1	55.1	5,980
FS132	4/10/2025	0	<0.0250	<0.0500	<20.0	283	<50.0	283	283	1,020
FS133	4/10/2025	0	<0.0250	<0.0500	<20.0	62.5	<50.0	62.5	62.5	4,190
FS134	4/10/2025	0	<0.0250	<0.0500	<20.0	169	<50.0	169	169	1,910
FS135	4/10/2025	0	<0.0250	<0.0500	<20.0	48.1	<50.0	48.1	48.1	12,300
FS135	4/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,260
FS136	4/10/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,750
FS137	4/10/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,030
FS138	4/10/2025	0	<0.0250	<0.0500	<20.0	80.2	<50.0	80.2	80.2	3,790
FS139	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,410
FS140	4/10/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,340
FS141	3/27/2025	0	<0.0250	<0.0500	<20.0	123	110	123	233	2,680
FS142	3/26/2025	0	<0.0250	<0.0500	<20.0	624	638	624	1,262	4,150
FS143	3/26/2025	0	<0.0250	<0.0500	<20.0	336	249	336	585	2,320
FS144	4/11/2025	0	<0.0250	<0.0500	<20.0	33.1	<50.0	33.1	<50.0	662
FS145	3/26/2025	0	<0.0250	<0.0500	<20.0	92.4	101	92.4	193.4	4,670
FS146	3/26/2025	0	<0.0250	<0.0500	<20.0	71.2	91.7	71.2	162.9	3,840
FS147	3/26/2025	0	<0.0250	<0.0500	<20.0	156	108	156	264	3,130
FS148	3/26/2025	0	<0.0250	<0.0500	<20.0	126	128	126	254	3,430
FS149	3/26/2025	0	<0.0250	<0.0500	<20.0	364	310	364	674	8,000
FS150	3/26/2025	0	<0.0250	<0.0500	<20.0	47.4	73.0	47.4	120.4	3,390

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Big Bucks Fed Com 501
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples										
FS151	3/26/2025	0	<0.0250	<0.0500	<20.0	34.0	60.4	34.0	94.4	551
FS152	3/26/2025	0	<0.0250	<0.0500	<20.0	313	173	313	486	3,870
FS153	3/26/2025	0	<0.0250	<0.0500	<20.0	466	265	466	731	880
FS154	3/26/2025	0	<0.0250	<0.0500	<20.0	104	95.6	104	200	2,330
FS155	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	97.2
FS156	4/10/2025	0	<0.0250	<0.0500	<20.0	98.0	50.6	98.0	149	581
FS157	3/26/2025	0	<0.0250	<0.0500	<20.0	317	248	317	565	5,430
FS158	3/26/2025	0	<0.0250	<0.0500	<20.0	506	352	506	858	1,830
FS159	4/10/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	822
FS160	3/26/2025	0	<0.0250	<0.0500	<20.0	182	92.5	182	275	521
FS161	3/26/2025	0	<0.0250	<0.0500	<20.0	381	266	381	647	1,680
FS162	3/26/2025	0	<0.0250	<0.0500	<20.0	131	148	131	279	409
FS163	3/26/2025	0	<0.0250	<0.0500	<20.0	821	472	821	1,293	415
FS164	3/26/2025	0	<0.0250	<0.0500	<20.0	473	418	473	891	568
FS165	3/26/2025	0	<0.0250	<0.0500	<20.0	420	344	420	764	3,250
FS166	3/26/2025	0	<0.0250	<0.0500	<20.0	502	314	502	816	642
FS167	3/26/2025	0	<0.0250	<0.0500	<20.0	287	219	287	506	654
FS168	3/26/2025	0	<0.0250	<0.0500	<20.0	315	226	315	541	2,670
FS169	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	258
FS170	4/10/2025	0	<0.0250	<0.0500	<20.0	5,650	652	5,650	6,302	1,180
FS170	4/28/2025	0.5	<0.0250	<0.0500	<20.0	59.1	<50.0	59.1	59.1	789
FS171	4/10/2025	0	<0.0250	<0.0500	<20.0	3,190	248	3,190	3,438	4,680
FS171	4/28/2025	0.5	<0.0250	<0.0500	<20.0	439	<50.0	439	439	1,230
FS172	4/10/2025	0	<0.0250	<0.0500	<20.0	1,240	176.0	1,240	1,416	2,900
FS172	4/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	44.2
FS173	4/10/2025	0	<0.0250	<0.0500	<20.0	687	150	687	837	2,580
FS174	4/10/2025	0	<0.0250	<0.0500	<20.0	4,130	820	4,130	4,950	1,540
FS174	4/28/2025	0.5	<0.0250	<0.0500	<20.0	37.3	<50.0	37.3	37.3	604
FS175	3/27/2025	0	<0.0250	<0.0500	<20.0	560	309.0	560	869	2,940
FS176	3/27/2025	0	<0.0250	<0.0500	<20.0	247	204	247	451	1,400
FS177	4/10/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	830
FS178	3/27/2025	0	<0.0250	<0.0500	<20.0	415	230.0	415	645	2,010

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Big Bucks Fed Com 501
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples										
FS179	3/27/2025	0	<0.0250	<0.0500	<20.0	168	130	168	298	2,480
FS180	3/27/2025	0	<0.0250	<0.0500	<20.0	200	132	200	332	1,290
FS181	3/27/2025	0	<0.0250	<0.0500	<20.0	200	176	200	376	959
FS182	3/27/2025	0	<0.0250	<0.0500	<20.0	1,240	670.0	1,240	1,910	1,040
FS182	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	654
FS182	4/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS183	3/27/2025	0	<0.0250	<0.0500	<20.0	588	310.0	588	898	1,090
FS184	4/10/2025	0	<0.0250	<0.0500	<20.0	2,180	1,650.0	2,180	3,830	696
FS184	4/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,470
FS185	3/26/2025	0	<0.0250	<0.0500	<20.0	59.3	83.4	59.3	143	343
FS186	4/11/2025	1	<0.0250	<0.0500	<20.0	140	<50.0	140	<50.0	558
FS187	3/26/2025	0	<0.0250	<0.0500	<20.0	171	110.0	171	281	1,510
FS188	3/26/2025	0	<0.0250	<0.0500	<20.0	216	133.0	216	349	792
FS189	3/26/2025	0	<0.0250	<0.0500	<20.0	75.5	97.8	75.5	173.3	642
FS190	3/26/2025	0	<0.0250	<0.0500	<20.0	198	268	198	466	659
FS191	4/11/2025	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS192	3/26/2025	0	<0.0250	<0.0500	<20.0	50.9	<50.0	50.9	50.9	459
FS193	3/25/2025	0	<0.0250	<0.0500	<20.0	151	133	151	284	1,280
FS194	4/11/2025	0	<0.0250	<0.0500	<20.0	52.5	<50.0	52.5	<50.0	156
FS195	3/26/2025	0	<0.0250	<0.0500	<20.0	45.1	52.1	45.1	97.2	531
FS196	3/26/2025	0	<0.0250	<0.0500	<20.0	72.3	82.9	72.3	155.2	2,190
FS197	3/26/2025	0	<0.0250	<0.0500	<20.0	431	173.0	431	604	3,840
FS198	3/26/2025	0	<0.0250	<0.0500	<20.0	252	206.0	252	458	1,200
FS199	3/26/2025	0	<0.0250	<0.0500	<20.0	482	330.0	482	812	1,100
FS200	3/26/2025	0	<0.0250	<0.0500	<20.0	611	351.0	611	962	897
FS201	3/28/2025	0	<0.0250	<0.0500	<20.0	117	66.4	117	183.4	2,130
FS202	3/28/2025	0	<0.0250	<0.0500	<20.0	177	137	177	314	867
FS203	3/28/2025	0	<0.0250	<0.0500	<20.0	222	124	222	346	2,130
FS204	3/28/2025	0	<0.0250	<0.0500	<20.0	568	303	568	871	2,290
FS205	3/26/2025	0	<0.0250	<0.0500	<20.0	754	427	754	1,181	726
FS206	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,660
FS207	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	430

TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Big Bucks Fed Com 501
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples										
FS208	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	692
FS209	3/28/2025	0	<0.0250	<0.0500	<20.0	98.8	56.8	98.8	156	1,970
FS210	3/28/2025	0	<0.0250	<0.0500	<20.0	213	156	213	369	4,960
FS211	4/11/2025	0	<0.0250	<0.0500	<20.0	62.4	64.2	62.4	127	1,180
FS212	3/28/2025	0	<0.0250	<0.0500	<20.0	159	85.3	159	244	757
FS213	3/28/2025	0	<0.0250	<0.0500	<20.0	114	63.7	114	178	618
FS214	3/28/2025	0	<0.0250	<0.0500	<20.0	210	111.0	210	321	665
FS215	3/28/2025	0	<0.0250	<0.0500	<20.0	148	57.4	148	205	172
FS216	3/26/2025	0	<0.0250	<0.0500	<20.0	1,010	419	1,010	1,429	924
FS216	4/11/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	156
FS216	4/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
FS217	3/28/2025	0	<0.0250	<0.0500	<20.0	48.0	<50.0	48.0	48.0	214
FS218	3/26/2025	0	<0.0250	<0.0500	<20.0	420	243	420	663	261
FS219	3/28/2025	0	<0.0250	<0.0500	<20.0	154	87.6	154	241.6	651
FS220	3/28/2025	0	<0.0250	<0.0500	<20.0	219	167.0	219	386	1,720
FS221	3/28/2025	0	<0.0250	<0.0500	<20.0	293	235	293	528	850
FS222	3/28/2025	0	<0.0250	<0.0500	<20.0	141	144	141	285	534
FS223	3/26/2025	0	<0.0250	<0.0500	<20.0	533	361	533	894	1,790
FS224	3/26/2025	0	<0.0250	<0.0500	<20.0	349	219	349	568	429
FS225	3/26/2025	0	<0.0250	<0.0500	<20.0	34.8	67.7	34.8	102.5	175
FS226	3/26/2025	0	<0.0250	<0.0500	<20.0	61.7	116	61.7	177.7	422
FS227	3/26/2025	0	<0.0250	<0.0500	<20.0	31.0	<50.0	31.0	31.0	610

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 NO. (WELL NO.) POD 1		WELL TAG ID NO. N/A		OSE FILE NO(S). CP 02-2032			
	WELL OWNER NAME(S) Matador Production Company				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS R347 N26th Rural Street 2nd Floor				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 30	SECONDS 23.98	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -103	36	51.6	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit K, Section 06, T 21S, R 33E, Lea, County								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc.		
	DRILLING STARTED 11/12/2024	DRILLING ENDED 11/12/2024	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 105		5.00	Soil Boring				
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

OSE DII ROSWELL NM
20 NOV '24 PM 2:40

FOR OSE INTERNAL USE

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

FILE NO. CP-2032	POD NO. 1	TRN NO. 770604
LOCATION 21S-33E-06 1 2 3	WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	10	10	Sand with Gravel, Red, Fine grained with small to large gravel	Y ✓ N	
	10	20	10	Sand with Gravel, Red, Fine grained with small to large gravel	Y ✓ N	
	20	30	10	Silty Sand, Red, Fine grained	Y ✓ N	
	30	40	10	Silty Sand, Red, Fine grained	Y ✓ N	
	40	50	10	Silty Sand, Red, Fine grained	Y ✓ N	
	50	60	10	Silty Gravel with Sand, Red, Very fine to Medium Grained with Large Gravel	Y ✓ N	
	60	70	10	Silty Gravel with Sand, Red, Very fine to Medium Grained with Large Gravel	Y ✓ N	
	70	80	10	Silty Gravel with Sand, Red, Very fine to Medium Grained with Large Gravel	Y ✓ N	
	80	90	10	Silty Gravel with Sand, Red, Very fine to Medium Grained with Large Gravel	Y ✓ N	
	90	100	10	Fat Clay with Gravel, Red, Very fine with small to large gravel	Y ✓ N	
	100	105	5	Fat Clay with Gravel, Red, Very fine with small to large gravel	Y ✓ N	
	105	105	0	Fat Clay with Gravel, Red, Very fine with small to large gravel	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	


5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.	
	OSE DII ROSWELL NM 20 NOV '24 12:40	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	


6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Scott Scarborough </div> <div style="width: 45%; text-align: right;"> Digitally signed by Scott Scarborough Date: 2024.11.18 13:47:52 -0700' </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;">SIGNATURE OF DRILLER / PRINT SIGNEE NAME</div> <div style="width: 45%; text-align: right;">DATE</div> </div>





APPENDIX B


Lithologic Soil Sampling Logs


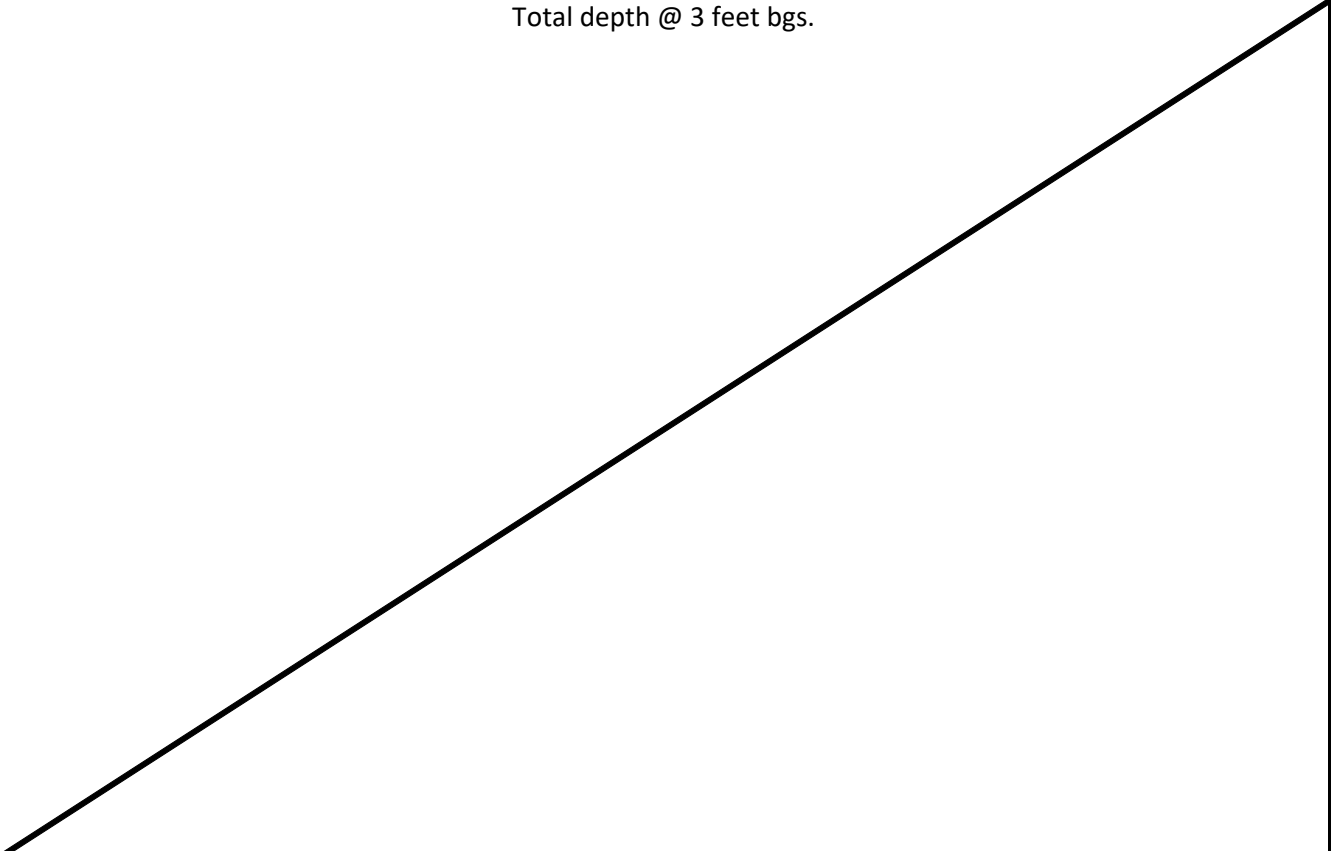
 ENSOLUM		Sample Name: PH01		Date: 2/13/25				
		Site Name: Big Bucks Fed Com 501H						
		Incident Number: nAPP2117649736						
		Job Number: 03A2270013						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.501209, -103.622053			Logged By: Oluwale Aderinto		Method: Backhoe			
			Hole Diameter: 2'		Total Depth: 3'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D						0	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform
D	ND	0.4	N	PH01	1	1	SP-SM	Silty Sand - Brown, poorly graded sand with silt and gravel, non-plastic.
D	ND	0.2	N	PH01	2	2		
D	ND	0.4	N	PH01	3	3		
Total depth @ 3 feet bgs.								


 ENSOLUM		Sample Name: PH02		Date: 2/13/25				
		Site Name: Big Bucks Fed Com 501H						
		Incident Number: nAPP2117649736						
		Job Number: 03A2270013						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.500947, -103.622053			Logged By: Oluwale Aderinto		Method: Backhoe			
			Hole Diameter: 2'		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	196	0	N	PH02	1	1	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform
D	ND	0	N	PH02	2	2		Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
Total depth @ 2 feet bgs.								


 ENSOLUM		Sample Name: PH03		Date: 2/13/25				
		Site Name: Big Bucks Fed Com 501H						
		Incident Number: nAPP2117649736						
		Job Number: 03A2270013						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.500659, -103.622059			Logged By: Oluwale Aderinto		Method: Backhoe			
			Hole Diameter: 2'		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	274	0	N	PH03	1	1	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform
D	196	0	N	PH03	2	2		Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
Total depth @2 feet bgs.								

 ENSOLUM		Sample Name: PH06		Date: 2/13/25				
		Site Name: Big Bucks Fed Com 501H						
		Incident Number: nAPP2117649736						
		Job Number: 03A2270013						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.501213, -103.621742			Logged By: Oluwale Aderinto		Method: Backhoe			
			Hole Diameter: 2'		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	ND	0.3	N	PH06	1	1	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform
D	ND	0	N	PH06	2	2	SP- SM	Silty Sand - Brown, poorly graded sand with silt and gravel, non-plastic.
Total depth @ 2 feet bgs.								

 ENSOLUM		Sample Name: PH07		Date: 2/13/25				
		Site Name: Big Bucks Fed Com 501H						
		Incident Number: nAPP2117649736						
		Job Number: 03A2270013						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.500942, -103.621740			Logged By: Oluwale Aderinto		Method: Back hoe			
			Hole Diameter: 2'		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	196	0.4	N	PH07	1	1	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform
D	ND	0.6	N	PH07	2	2		Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
Total depth @ 2 feet bgs.								

 ENSOLUM		Sample Name: PH08		Date: 2/13/25				
		Site Name: Big Bucks Fed Com 501H						
		Incident Number: nAPP2117649736						
		Job Number: 03A2270013						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.500676, -103.621748			Logged By: Oluwale Aderinto		Method: Back hoe			
			Hole Diameter: 2'		Total Depth: 3'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	576	0.6	N	PH08	1	1	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform
D	515	0.7	N	PH08	2	2		Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
D	274	0.4	N	PH08	3	3		
Total depth @ 3 feet bgs.								

 ENSOLUM		Sample Name: PH13		Date: 2/13/25				
		Site Name: Big Bucks Fed Com 501H						
		Incident Number: nAPP2117649736						
		Job Number: 03A2270013						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.500677, -103.621390			Logged By: Oluwale Aderinto		Method: Back hoe			
			Hole Diameter: 2'		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	ND	0.3	N	PH13	1	1	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform
D	274	0.4	N	PH13	2	2		Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
Total depth @ 2 feet bgs.								

 ENSOLUM		Sample Name: PH14		Date: 2/13/25				
		Site Name: Big Bucks Fed Com 501H						
		Incident Number: nAPP2117649736						
		Job Number: 03A2270013						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.500418, -103.621401			Logged By: Oluwale Aderinto		Method: Back hoe			
			Hole Diameter: 2'		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	235	0.5	N	PH14	1	1	CCHE	Pad Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Non-Uniform
D	ND	0.4	N	PH14	2	2		Caliche - White to light brown, Fine to coarse with some small to large gravel, Dry, Non-plastic, Noncohesive, Massive, Non-Uniform
Total depth @ 2 feet bgs.								



APPENDIX C

Photographic Log

**Photographic Log**

Matador Production Company

Big Bucks Fed Com 501

Incident Number: nAPP2117649736

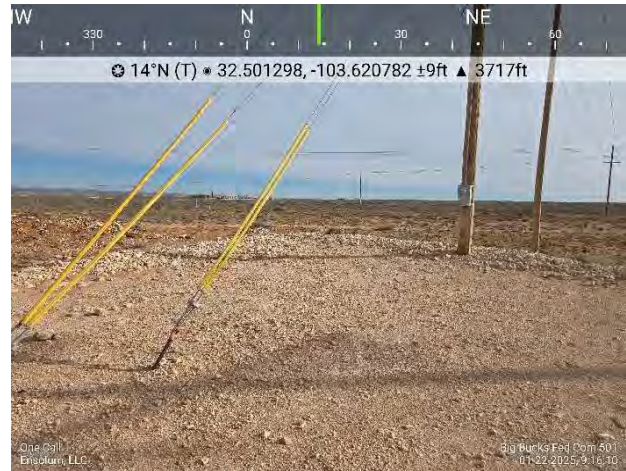


Photograph 1

Date:1/22/2025

Description: Signage

View: Northwest



Photograph 2

Date:1/22/2025

Description: One Call

View: North



Photograph 3

Date:1/22/2025

Description: One Call

View: Northeast



Photograph 4

Date:1/22/2025

Description: One Call

View: Northeast



Photographic Log

Matador Production Company

Big Bucks Fed Com 501

Incident Number: nAPP2117649736



Photograph 5
Description: Delineation
View: South

Date: 1/27/2025



Photograph 6
Description: Delineation
View: North

Date: 1/27/2025



Photograph 7
Description: PH01
View: South

Date: 2/13/2025



Photograph 8
Description: PH06
View: South

Date: 2/13/2025



Photographic Log

Matador Production Company

Big Bucks Fed Com 501

Incident Number: nAPP2117649736



Photograph 9

Date: 2/13/2025

Description: PH14

View: North



Photograph 10

Date: 2/24/2025

Description: SS01

View: Northwest



Photograph 11

Date: 2/24/2025

Description: SS04

View: East



Photograph 12

Date: 2/24/2025

Description: SS06

View: West



Photographic Log

Matador Production Company

Big Bucks Fed Com 501

Incident Number: nAPP2117649736



Photograph 13

Date: 3/25/2025

Description: Confirmation sampling

View: South



Photograph 14

Date: 3/25/2025

Description: Confirmation sampling

View: Southeast



Photograph 15

Date: 3/26/2025

Description: Confirmation sampling

View: Southeast



Photograph 16

Date: 3/27/2025

Description: Confirmation sampling

View: Northeast



Photographic Log

Matador Production Company

Big Bucks Fed Com 501

Incident Number: nAPP2117649736



Photograph 17

Date: 04/09/2025

Description: Excavation Activities

View: West



Photograph 18

Date: 04/10/2025

Description: Excavation Activities

View: South



Photograph 3

Date: 04/10/2025

Description: Excavation Activities

View: Southwest



Photograph 4

Date: 04/28/2025

Description: Confirmation Soil Sampling

View: East



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: Big Bucks Fed Com 501

Work Order: E501223

Job Number: 23003-0002

Received: 1/30/2025

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/10/25

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: 2/10/25

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



Project Name: Big Bucks Fed Com 501
Workorder: E501223
Date Received: 1/30/2025 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/30/2025 7:15:00AM, under the Project Name: Big Bucks Fed Com 501.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501 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
Office: 505-632-1881
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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Big Bucks Fed Com 501

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

02/10/25 12:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E501223-01A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS02-0'	E501223-02A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS03-0'	E501223-03A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS04-0'	E501223-04A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS05-0'	E501223-05A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS06-0'	E501223-06A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS07-0'	E501223-07A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS08-0'	E501223-08A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS09-0'	E501223-09A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS10-0'	E501223-10A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS11-0'	E501223-11A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS12-0'	E501223-12A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS13-0'	E501223-13A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS14-0'	E501223-14A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.
SS15-0'	E501223-15A	Soil	01/27/25	01/30/25	Glass Jar, 2 oz.



Project Name: Bug Bucks Fed Com 501

Workorder:E501223

Date Received: 01/30/25 07:15

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>
SS03-0'	E501223-03A	Chloride 300.0
SS07-0'	E501223-07A	Chloride 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.	Project Name:	Big Bucks Fed Com 501	Reported: 2/10/2025 12:40:28PM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

SS01-0'

E501223-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	98.1 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	104 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	98.1 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	104 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	245	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	127	50.0	1	01/30/25	01/31/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/10/2025 12:40:28PM
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SS01-0'

E501223-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2505111
Surrogate: n-Nonane	108 %	61-141	01/30/25	01/31/25		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2505116
Chloride	38.2	20.0	1	01/30/25	01/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/10/2025 12:40:28PM

SS02-0'

E501223-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	95.7 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	105 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	95.7 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	105 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	109 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2505116
Chloride	3000	40.0	2	01/30/25	01/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/10/2025 12:40:28PM

SS03-0'

E501223-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	97.9 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	105 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	97.9 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	105 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	109 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2506111
Chloride	666	20.0	1	01/30/25	02/07/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/10/2025 12:40:28PM

SS04-0'

E501223-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	97.9 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	104 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	97.9 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	104 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	112 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2505116
Chloride	139	20.0	1	01/30/25	01/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/10/2025 12:40:28PM

SS05-0'

E501223-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	94.4 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	103 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	94.4 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	103 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	108 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2505116
Chloride	80.4	20.0	1	01/30/25	01/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/10/2025 12:40:28PM

SS06-0'

E501223-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	96.2 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	104 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	96.2 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	104 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	111	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	122	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	109 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2505116
Chloride	804	20.0	1	01/30/25	01/31/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/10/2025 12:40:28PM
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SS07-0'

E501223-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2505102	
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	96.0 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	103 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2505102	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	96.0 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	103 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2505111	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	109 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2506111	
Chloride	828	20.0	1	01/30/25	02/07/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/10/2025 12:40:28PM

SS08-0'

E501223-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	95.8 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	103 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	95.8 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	103 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	112 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2505116
Chloride	1260	20.0	1	01/30/25	01/31/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/10/2025 12:40:28PM
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SS09-0'

E501223-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	94.6 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	104 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	94.6 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	104 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	110 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2505116
Chloride	385	20.0	1	01/30/25	01/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/10/2025 12:40:28PM

SS10-0'

E501223-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	95.7 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	104 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	95.7 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	104 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	114 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2505116
Chloride	349	20.0	1	01/30/25	01/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/10/2025 12:40:28PM

SS11-0'

E501223-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	98.0 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	102 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	98.0 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	102 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	111 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2505116
Chloride	108	20.0	1	01/30/25	01/31/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/10/2025 12:40:28PM
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SS12-0'

E501223-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	96.2 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	102 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	96.2 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	102 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	113 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2505116
Chloride	430	20.0	1	01/30/25	01/31/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/10/2025 12:40:28PM
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SS13-0'

E501223-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	96.9 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	102 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	96.9 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	102 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	97.7	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	130	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	110 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2505116
Chloride	1090	20.0	1	01/30/25	01/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/10/2025 12:40:28PM

SS14-0'

E501223-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	96.5 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	103 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	96.5 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	103 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	112 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2505116
Chloride	1230	20.0	1	01/30/25	01/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/10/2025 12:40:28PM

SS15-0'

E501223-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Benzene	ND	0.0250	1	01/30/25	01/31/25	
Ethylbenzene	ND	0.0250	1	01/30/25	01/31/25	
Toluene	ND	0.0250	1	01/30/25	01/31/25	
o-Xylene	ND	0.0250	1	01/30/25	01/31/25	
p,m-Xylene	ND	0.0500	1	01/30/25	01/31/25	
Total Xylenes	ND	0.0250	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	96.7 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	103 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2505102
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/30/25	01/31/25	
Surrogate: Bromofluorobenzene	96.7 %	70-130		01/30/25	01/31/25	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		01/30/25	01/31/25	
Surrogate: Toluene-d8	103 %	70-130		01/30/25	01/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2505111
Diesel Range Organics (C10-C28)	ND	25.0	1	01/30/25	01/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/30/25	01/31/25	
Surrogate: n-Nonane	110 %	61-141		01/30/25	01/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2505116
Chloride	317	20.0	1	01/30/25	01/31/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/10/2025 12:40:28PM

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 (2505102-BLK1)

Prepared: 01/30/25 Analyzed: 02/05/25

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	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

LCS (2505102-BS1)

Prepared: 01/30/25 Analyzed: 02/05/25

Benzene	2.26	0.0250	2.50		90.2	70-130			
Ethylbenzene	2.26	0.0250	2.50		90.4	70-130			
Toluene	2.29	0.0250	2.50		91.7	70-130			
o-Xylene	2.32	0.0250	2.50		92.8	70-130			
p,m-Xylene	4.62	0.0500	5.00		92.5	70-130			
Total Xylenes	6.94	0.0250	7.50		92.6	70-130			
Surrogate: Bromofluorobenzene	0.467		0.500		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.530		0.500		106	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

Matrix Spike (2505102-MS1)

Source: E501223-02

Prepared: 01/30/25 Analyzed: 02/05/25

Benzene	2.36	0.0250	2.50	ND	94.3	48-131			
Ethylbenzene	2.42	0.0250	2.50	ND	96.6	45-135			
Toluene	2.42	0.0250	2.50	ND	96.8	48-130			
o-Xylene	2.51	0.0250	2.50	ND	101	43-135			
p,m-Xylene	4.95	0.0500	5.00	ND	99.0	43-135			
Total Xylenes	7.47	0.0250	7.50	ND	99.5	43-135			
Surrogate: Bromofluorobenzene	0.479		0.500		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.533		0.500		107	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike Dup (2505102-MSD1)

Source: E501223-02

Prepared: 01/30/25 Analyzed: 02/05/25

Benzene	2.36	0.0250	2.50	ND	94.5	48-131	0.191	23	
Ethylbenzene	2.37	0.0250	2.50	ND	94.9	45-135	1.84	27	
Toluene	2.33	0.0250	2.50	ND	93.4	48-130	3.56	24	
o-Xylene	2.47	0.0250	2.50	ND	98.7	43-135	1.85	27	
p,m-Xylene	4.85	0.0500	5.00	ND	97.0	43-135	2.04	27	
Total Xylenes	7.32	0.0250	7.50	ND	97.6	43-135	1.97	27	
Surrogate: Bromofluorobenzene	0.484		0.500		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.541		0.500		108	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/10/2025 12:40:28PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2505102-BLK1)

Prepared: 01/30/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

LCS (2505102-BS2)

Prepared: 01/30/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.535		0.500		107	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike (2505102-MS2)

Source: E501223-02

Prepared: 01/30/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.484		0.500		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.514		0.500		103	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

Matrix Spike Dup (2505102-MSD2)

Source: E501223-02

Prepared: 01/30/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	54.9	20.0	50.0	ND	110	70-130	0.492	20	
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/10/2025 12:40:28PM

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 (2505111-BLK1)					Prepared: 01/30/25 Analyzed: 01/31/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.6		50.0		103	61-141			

LCS (2505111-BS1)					Prepared: 01/30/25 Analyzed: 01/31/25				
Diesel Range Organics (C10-C28)	256	25.0	250		103	66-144			
Surrogate: n-Nonane	52.6		50.0		105	61-141			

Matrix Spike (2505111-MS1)					Source: E501223-12		Prepared: 01/30/25 Analyzed: 01/31/25		
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	56-156			
Surrogate: n-Nonane	55.3		50.0		111	61-141			

Matrix Spike Dup (2505111-MSD1)					Source: E501223-12		Prepared: 01/30/25 Analyzed: 01/31/25		
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	56-156	0.265	20	
Surrogate: n-Nonane	55.1		50.0		110	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/10/2025 12:40:28PM
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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 (2505116-BLK1)					Prepared: 01/30/25 Analyzed: 01/31/25				
Chloride	ND	20.0							
LCS (2505116-BS1)					Prepared: 01/30/25 Analyzed: 01/31/25				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2505116-MS1)					Source: E501223-03		Prepared: 01/30/25 Analyzed: 01/31/25		
Chloride	936	20.0	250	690	98.5	80-120			
Matrix Spike Dup (2505116-MSD1)					Source: E501223-03		Prepared: 01/30/25 Analyzed: 01/31/25		
Chloride	990	20.0	250	690	120	80-120	5.61	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/10/2025 12:40:28PM
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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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2506111-BLK1)					Prepared: 02/07/25 Analyzed: 02/07/25				
Chloride	ND	20.0							
LCS (2506111-BS1)					Prepared: 02/07/25 Analyzed: 02/07/25				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2506111-MS1)					Source: E502054-04		Prepared: 02/07/25 Analyzed: 02/07/25		
Chloride	261	20.0	250	ND	104	80-120			
Matrix Spike Dup (2506111-MSD1)					Source: E502054-04		Prepared: 02/07/25 Analyzed: 02/07/25		
Chloride	278	20.0	250	ND	111	80-120	6.44	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:	Big Bucks Fed Com 501	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/10/25 12:40

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

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

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



Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: Bug Bucks Fed Com 501				Address: 3122 National Parks Hwy		E-501223		Job Number				23005-0002					
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/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
1228	1/27/25	S	1	SS01 - 0'		1						X					
1233				SS02 - 0'		2											
1234				SS03 - 0'		3											
1236				SS04 - 0'		4											
1240				SS05 - 0'		5											
1248				SS06 - 0'		6											
CA 1240				SS07 - 0'		7											
1245				SS08 - 0'		8											
1244				SS09 - 0'		9											
1242				SS10 - 0'		10											
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Cole Burton																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Michelle Gonzales		1-29-25	9:45	Michelle Gonzales		1-29-25	0945										
Michelle Gonzales		1-29-25	1545	Michelle Gonzales		1-29-25	1545										
Michelle Gonzales		1-29-25	2100	Michelle Gonzales		1-30-25	715										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



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Chain of Custody

Page 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: Bug Bucks Fed Com 501				Address: 3122 National Parks Hwy		E501223		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
1254	1/27/25	S	1	SS11 - 0'		11						X					
1255				SS12 - 0'		12											
1257				SS13 - 0'		13											
1259				SS14 - 0'		14											
1301				SS15 - 0'		15											
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Cole Burton																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Michelle Gonzales		1/29/25	9:45	Michelle Gonzales		1-29-25	0945										
Michelle Gonzales		1-29-25	1545	Michelle Gonzales		1-29-25	1545										
Michelle Gonzales		1-29-25	2100	Michelle Gonzales		1-30-25	715										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Michelle Gonzales		1-29-25	2100	Michelle Gonzales		1-30-25	715										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Michelle Gonzales		1-29-25	2100	Michelle Gonzales		1-30-25	715										
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: 1/30/2025 8:07:51AM

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:	01/30/25 07:15	Work Order ID:	E501223
Phone:	(972) 371-5200	Date Logged In:	01/29/25 14:30	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	02/05/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Project: Big Bucks Fed Com 501

Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT		State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX
Project: Big Bucks Fed Com 501				Address: 3122 National Parks Hwy		E501223	23005-0002				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	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	Remarks
1228	1/27/25	S	1	SS01 - 0'		1						X			Client requested to re-extract and rerun samples 3-7 for CL. 2/7/25 CM
1233				SS02 - 0'		2									
1234				SS03 - 0'		3				X					
1236				SS04 - 0'		4									
1240				SS05 - 0'		5									
1248				SS06 - 0'		6									
CH 1240				SS07 - 0'		7				X					
1245				SS08 - 0'		8									
1244				SS09 - 0'		9									
1242				SS10 - 0'		10									
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@ensolum.com															
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.															
Sampled by: Cole Burton															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other															
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															



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Chain of Custody

Project: BigBucks Fed Conn 50!

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: Dog Bucks Fed Com 501				Address: 3122 National Parks Hwy				E-501223		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	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA				
1254	1/27/25	S	1	SS11 - 0'			11						X									
1255	1	1	1	SS12 - 0'			12															
1257	1	1	1	SS13 - 0'			13															
1259	1	1	1	SS14 - 0'			14															
1301	1	1	1	SS15 - 0'			15															

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Cole Burton

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on <u>ice</u> <div style="text-align: center;">Lab Use Only</div> Received on ice: Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>Michelle Gonzales</i>	1/29/25	9:45	<i>Michelle Gonzales</i>	1-29-25	0945	
<i>Michelle Gonzales</i>	1-29-25	1545	<i>Michelle Gonzales</i>	1-29-25	1545	
<i>Michelle Gonzales</i>	1-29-25	2100	<i>Michelle Gonzales</i>	1-30-25	715	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

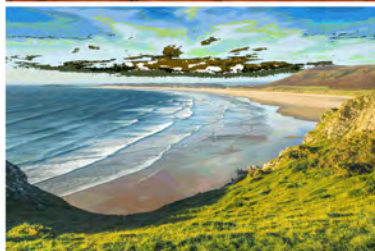
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

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

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

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E502141

Job Number: 23003-0002

Received: 2/17/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/25/25

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: 2/25/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E502141
Date Received: 2/17/2025 8:00:33AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/17/2025 8:00:33AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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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Sample Summary

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
02/25/25 08:44

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01-1'	E502141-01A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH01-2'	E502141-02A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH02-1'	E502141-03A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH03-1'	E502141-04A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH06-1'	E502141-05A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH07-1'	E502141-06A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH08-1'	E502141-07A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH08-3'	E502141-08A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH13-1	E502141-09A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH14-1'	E502141-10A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.



Case Narrative:

Project Name: Big Bucks Fed Com 501H

Workorder:E502141

Date Received: 02/17/25 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>
PH03-1'	E502141-04	DRO/ORO 8015

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: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/25/2025 8:44:01AM
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PH01-1'

E502141-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Benzene	ND	0.0250	1	02/17/25	02/19/25	
Ethylbenzene	ND	0.0250	1	02/17/25	02/19/25	
Toluene	ND	0.0250	1	02/17/25	02/19/25	
o-Xylene	ND	0.0250	1	02/17/25	02/19/25	
p,m-Xylene	ND	0.0500	1	02/17/25	02/19/25	
Total Xylenes	ND	0.0250	1	02/17/25	02/19/25	
Surrogate: 4-Bromochlorobenzene-PID	128 %	70-130		02/17/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/25	02/19/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	113 %	70-130		02/17/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2508028	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/25	02/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/25	02/18/25	
Surrogate: n-Nonane	114 %	61-141		02/17/25	02/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2508046	
Chloride	ND	20.0	1	02/18/25	02/18/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/25/2025 8:44:01AM

PH01-2'

E502141-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Benzene	ND	0.0250	1	02/17/25	02/19/25	
Ethylbenzene	ND	0.0250	1	02/17/25	02/19/25	
Toluene	ND	0.0250	1	02/17/25	02/19/25	
o-Xylene	ND	0.0250	1	02/17/25	02/19/25	
p,m-Xylene	ND	0.0500	1	02/17/25	02/19/25	
Total Xylenes	ND	0.0250	1	02/17/25	02/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		129 %	70-130	02/17/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/25	02/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		116 %	70-130	02/17/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2508028	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/25	02/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/25	02/18/25	
<i>Surrogate: n-Nonane</i>						
		119 %	61-141	02/17/25	02/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2508046	
Chloride	ND	20.0	1	02/18/25	02/18/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/25/2025 8:44:01AM

PH02-1'

E502141-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2508018
Benzene	ND	0.0250	1	02/17/25	02/19/25	
Ethylbenzene	ND	0.0250	1	02/17/25	02/19/25	
Toluene	ND	0.0250	1	02/17/25	02/19/25	
o-Xylene	ND	0.0250	1	02/17/25	02/19/25	
p,m-Xylene	ND	0.0500	1	02/17/25	02/19/25	
Total Xylenes	ND	0.0250	1	02/17/25	02/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		129 %	70-130	02/17/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2508018
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/25	02/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		115 %	70-130	02/17/25	02/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2508028
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/25	02/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/25	02/18/25	
<i>Surrogate: n-Nonane</i>						
		121 %	61-141	02/17/25	02/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2508046
Chloride	154	20.0	1	02/18/25	02/18/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/25/2025 8:44:01AM

PH03-1'

E502141-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Benzene	ND	0.0250	1	02/17/25	02/20/25	
Ethylbenzene	ND	0.0250	1	02/17/25	02/20/25	
Toluene	ND	0.0250	1	02/17/25	02/20/25	
o-Xylene	ND	0.0250	1	02/17/25	02/20/25	
p,m-Xylene	ND	0.0500	1	02/17/25	02/20/25	
Total Xylenes	ND	0.0250	1	02/17/25	02/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		02/17/25	02/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/25	02/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	74.9 %	70-130		02/17/25	02/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2508121	
Diesel Range Organics (C10-C28)	53.0	25.0	1	02/21/25	02/22/25	
Oil Range Organics (C28-C36)	61.8	50.0	1	02/21/25	02/22/25	
<i>Surrogate: n-Nonane</i>						
	116 %	61-141		02/21/25	02/22/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2508046	
Chloride	240	20.0	1	02/18/25	02/18/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/25/2025 8:44:01AM

PH06-1'

E502141-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Benzene	ND	0.0250	1	02/17/25	02/20/25	
Ethylbenzene	ND	0.0250	1	02/17/25	02/20/25	
Toluene	ND	0.0250	1	02/17/25	02/20/25	
o-Xylene	ND	0.0250	1	02/17/25	02/20/25	
p,m-Xylene	ND	0.0500	1	02/17/25	02/20/25	
Total Xylenes	ND	0.0250	1	02/17/25	02/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.7 %	70-130	02/17/25	02/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/25	02/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		73.8 %	70-130	02/17/25	02/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2508028	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/25	02/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/25	02/18/25	
<i>Surrogate: n-Nonane</i>		117 %	61-141	02/17/25	02/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2508046	
Chloride	ND	20.0	1	02/18/25	02/18/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/25/2025 8:44:01AM

PH07-1'

E502141-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Benzene	ND	0.0250	1	02/17/25	02/20/25	
Ethylbenzene	ND	0.0250	1	02/17/25	02/20/25	
Toluene	ND	0.0250	1	02/17/25	02/20/25	
o-Xylene	ND	0.0250	1	02/17/25	02/20/25	
p,m-Xylene	ND	0.0500	1	02/17/25	02/20/25	
Total Xylenes	ND	0.0250	1	02/17/25	02/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	81.7 %	70-130		02/17/25	02/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/25	02/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		02/17/25	02/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2508028	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/25	02/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/25	02/18/25	
<i>Surrogate: n-Nonane</i>						
	119 %	61-141		02/17/25	02/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2508046	
Chloride	178	20.0	1	02/18/25	02/18/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/25/2025 8:44:01AM

PH08-1'

E502141-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Benzene	ND	0.0250	1	02/17/25	02/20/25	
Ethylbenzene	ND	0.0250	1	02/17/25	02/20/25	
Toluene	ND	0.0250	1	02/17/25	02/20/25	
o-Xylene	ND	0.0250	1	02/17/25	02/20/25	
p,m-Xylene	ND	0.0500	1	02/17/25	02/20/25	
Total Xylenes	ND	0.0250	1	02/17/25	02/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	81.7 %	70-130		02/17/25	02/20/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/25	02/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.8 %	70-130		02/17/25	02/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2508028	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/25	02/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/25	02/19/25	
<i>Surrogate: n-Nonane</i>	117 %	61-141		02/17/25	02/19/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2508046	
Chloride	549	20.0	1	02/18/25	02/18/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/25/2025 8:44:01AM

PH08-3'

E502141-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Benzene	ND	0.0250	1	02/17/25	02/20/25	
Ethylbenzene	ND	0.0250	1	02/17/25	02/20/25	
Toluene	ND	0.0250	1	02/17/25	02/20/25	
o-Xylene	ND	0.0250	1	02/17/25	02/20/25	
p,m-Xylene	ND	0.0500	1	02/17/25	02/20/25	
Total Xylenes	ND	0.0250	1	02/17/25	02/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	81.3 %	70-130		02/17/25	02/20/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/25	02/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		02/17/25	02/20/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2508028	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/25	02/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/25	02/19/25	
<i>Surrogate: n-Nonane</i>						
	123 %	61-141		02/17/25	02/19/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2508046	
Chloride	242	20.0	1	02/18/25	02/18/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/25/2025 8:44:01AM

PH13-1

E502141-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2508018
Benzene	ND	0.0250	1	02/17/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/17/25	02/21/25	
Toluene	ND	0.0250	1	02/17/25	02/21/25	
o-Xylene	ND	0.0250	1	02/17/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/17/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/17/25	02/21/25	
Surrogate: 4-Bromochlorobenzene-PID	81.5 %	70-130		02/17/25	02/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2508018
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/25	02/21/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		02/17/25	02/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2508028
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/25	02/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/25	02/19/25	
Surrogate: n-Nonane	118 %	61-141		02/17/25	02/19/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2508046
Chloride	71.2	20.0	1	02/18/25	02/18/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/25/2025 8:44:01AM

PH14-1'

E502141-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Benzene	ND	0.0250	1	02/17/25	02/21/25	
Ethylbenzene	ND	0.0250	1	02/17/25	02/21/25	
Toluene	ND	0.0250	1	02/17/25	02/21/25	
o-Xylene	ND	0.0250	1	02/17/25	02/21/25	
p,m-Xylene	ND	0.0500	1	02/17/25	02/21/25	
Total Xylenes	ND	0.0250	1	02/17/25	02/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	80.9 %	70-130		02/17/25	02/21/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2508018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/25	02/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		02/17/25	02/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2508028	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/25	02/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/25	02/19/25	
<i>Surrogate: n-Nonane</i>						
	118 %	61-141		02/17/25	02/19/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2508046	
Chloride	334	20.0	1	02/18/25	02/18/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/25/2025 8:44:01AM

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 (2508018-BLK1)

Prepared: 02/17/25 Analyzed: 02/19/25

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 9.66 8.00 121 70-130

LCS (2508018-BS1)

Prepared: 02/17/25 Analyzed: 02/19/25

Benzene	3.95	0.0250	5.00	79.0	70-130
Ethylbenzene	3.81	0.0250	5.00	76.1	70-130
Toluene	3.89	0.0250	5.00	77.7	70-130
o-Xylene	3.82	0.0250	5.00	76.4	70-130
p,m-Xylene	7.74	0.0500	10.0	77.4	70-130
Total Xylenes	11.6	0.0250	15.0	77.1	70-130

Surrogate: 4-Bromochlorobenzene-PID 10.1 8.00 126 70-130

LCS Dup (2508018-BSD1)

Prepared: 02/17/25 Analyzed: 02/19/25

Benzene	4.09	0.0250	5.00	81.8	70-130	3.49	20
Ethylbenzene	3.94	0.0250	5.00	78.8	70-130	3.40	20
Toluene	4.02	0.0250	5.00	80.5	70-130	3.50	20
o-Xylene	3.94	0.0250	5.00	78.8	70-130	3.15	20
p,m-Xylene	8.01	0.0500	10.0	80.1	70-130	3.37	20
Total Xylenes	12.0	0.0250	15.0	79.7	70-130	3.30	20

Surrogate: 4-Bromochlorobenzene-PID 10.0 8.00 126 70-130



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/25/2025 8:44:01AM

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 (2508018-BLK1)					Prepared: 02/17/25 Analyzed: 02/19/25				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.75		8.00		109	70-130			

LCS (2508018-BS2)					Prepared: 02/17/25 Analyzed: 02/19/25				
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.93		8.00		112	70-130			

LCS Dup (2508018-BSD2)					Prepared: 02/17/25 Analyzed: 02/19/25				
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.2	70-130	0.0996	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.00		8.00		112	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/25/2025 8:44:01AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2508028-BLK1)

Prepared: 02/17/25 Analyzed: 02/18/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.9		50.0		120	61-141			

LCS (2508028-BS1)

Prepared: 02/17/25 Analyzed: 02/18/25

Diesel Range Organics (C10-C28)	325	25.0	250		130	66-144			
Surrogate: n-Nonane	63.8		50.0		128	61-141			

Matrix Spike (2508028-MS1)

Source: E502141-05

Prepared: 02/17/25 Analyzed: 02/18/25

Diesel Range Organics (C10-C28)	321	25.0	250	ND	129	56-156			
Surrogate: n-Nonane	63.4		50.0		127	61-141			

Matrix Spike Dup (2508028-MSD1)

Source: E502141-05

Prepared: 02/17/25 Analyzed: 02/18/25

Diesel Range Organics (C10-C28)	321	25.0	250	ND	128	56-156	0.111	20	
Surrogate: n-Nonane	63.0		50.0		126	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/25/2025 8:44:01AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2508121-BLK1)					Prepared: 02/21/25 Analyzed: 02/21/25				
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 (2508121-BS1)					Prepared: 02/21/25 Analyzed: 02/21/25				
Diesel Range Organics (C10-C28)	292	25.0	250		117	66-144			
Surrogate: n-Nonane	52.8		50.0		106	61-141			

Matrix Spike (2508121-MS1)					Source: E502196-04		Prepared: 02/21/25 Analyzed: 02/21/25		
Diesel Range Organics (C10-C28)	313	25.0	250	ND	125	56-156			
Surrogate: n-Nonane	69.0		50.0		138	61-141			

Matrix Spike Dup (2508121-MSD1)					Source: E502196-04		Prepared: 02/21/25 Analyzed: 02/21/25		
Diesel Range Organics (C10-C28)	311	25.0	250	ND	125	56-156	0.427	20	
Surrogate: n-Nonane	57.2		50.0		114	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/25/2025 8:44:01AM
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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 (2508046-BLK1)						Prepared: 02/18/25 Analyzed: 02/18/25			
Chloride	ND	20.0							
LCS (2508046-BS1)						Prepared: 02/18/25 Analyzed: 02/18/25			
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2508046-MS1)				Source: E502141-01		Prepared: 02/18/25 Analyzed: 02/18/25			
Chloride	270	20.0	250	ND	108	80-120			
Matrix Spike Dup (2508046-MSD1)				Source: E502141-01		Prepared: 02/18/25 Analyzed: 02/18/25			
Chloride	268	20.0	250	ND	107	80-120	0.679	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/25/25 08:44

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#		1D		2D		3D		Std			
Project: Big Bucks Fed Com 501H				Address: 3122 National Parks Hwy		E502141		Job Number		23030002				x			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220										NM CO UT TX			
Address: 3122 National Parks Hwy				Phone: 575-988-0055										x			
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
9:59	2/13/2025	S	1	PH01 - 1'		1						X					
10:04	2/13/2025	S	1	PH01 - 2'		2						X					
10:44	2/13/2025	S	1	PH02 - 1'		3						X					
11:14	2/13/2025	S	1	PH03 - 1'		4						X					
11:43	2/13/2025	S	1	PH06 - 1'		5						X					
13:08	2/13/2025	S	1	PH07 - 1'		6						X					
13:32	2/13/2025	S	1	PH08 - 1'		7						X					
13:58	2/13/2025	S	1	PH08 - 3'		8						X					
14:12	2/13/2025	S	1	PH13 - 1'		9						X					
14:44	2/13/2025	S	1	PH14 - 1'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, oaderinto@ensolum.com I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Oluwale Aderinto																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Envirotech Analytical Laboratory

Printed: 2/17/2025 10:21:53AM

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:	02/17/25 08:00	Work Order ID:	E502141
Phone:	(972) 371-5200	Date Logged In:	02/14/25 15:00	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	02/21/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Chain of Custody

Page 6 of 6

Client Information				Invoice Information		Lab Use Only		TAT		State							
Client: Matador				Company: Ensolum LLC		Lab WO# E502141		Job Number 230030002		1D	2D	3D	Std				
Project: Big Bucks Fed Com 501H				Address: 3122 National Parks Hwy													
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
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
9:59	2/13/2025	S	1	PH01 - 1'		1						X					
10:04	2/13/2025	S	1	PH01 - 2'		2						X					
10:44	2/13/2025	S	1	PH02 - 1'		3						X					
11:14	2/13/2025	S	1	PH03 - 1'		4	X	X				X					
11:43	2/13/2025	S	1	PH06 - 1'		5						X					
13:08	2/13/2025	S	1	PH07 - 1'		6						X					
13:32	2/13/2025	S	1	PH08 - 1'		7						X					
13:58	2/13/2025	S	1	PH08 - 3'		8						X					
14:12	2/13/2025	S	1	PH13 - 1'		9						X					
14:44	2/13/2025	S	1	PH14 - 1'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, oaderinto@ensolum.com I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Oluwale Aderinto																	
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. Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E502142

Job Number: 23003-0002

Received: 2/17/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/21/25

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: 2/21/25



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

Project Name: Big Bucks Fed Com 501H
Workorder: E502142
Date Received: 2/17/2025 8:00:33AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/17/2025 8:00:33AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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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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: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 02/21/25 09:38
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01-3'	E502142-01A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH02-2'	E502142-02A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH03-2'	E502142-03A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH06-2'	E502142-04A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH07-2'	E502142-05A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH13-2'	E502142-06A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.
PH14-2'	E502142-07A	Soil	02/13/25	02/17/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/21/2025 9:38:36AM

PH03-2'

E502142-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2508017	
Benzene	ND	0.0250	1	02/17/25	02/18/25	
Ethylbenzene	ND	0.0250	1	02/17/25	02/18/25	
Toluene	ND	0.0250	1	02/17/25	02/18/25	
o-Xylene	ND	0.0250	1	02/17/25	02/18/25	
p,m-Xylene	ND	0.0500	1	02/17/25	02/18/25	
Total Xylenes	ND	0.0250	1	02/17/25	02/18/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		113 %	70-130	02/17/25	02/18/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2508017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/25	02/18/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.4 %	70-130	02/17/25	02/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2508044	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/18/25	02/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/18/25	02/19/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	02/18/25	02/19/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2508029	
Chloride	137	20.0	1	02/17/25	02/18/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/21/2025 9:38:36AM

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 (2508017-BLK1)

Prepared: 02/17/25 Analyzed: 02/18/25

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	9.04		8.00		113	70-130			

LCS (2508017-BS1)

Prepared: 02/17/25 Analyzed: 02/18/25

Benzene	4.50	0.0250	5.00		89.9	70-130			
Ethylbenzene	4.33	0.0250	5.00		86.7	70-130			
Toluene	4.44	0.0250	5.00		88.8	70-130			
o-Xylene	4.40	0.0250	5.00		88.0	70-130			
p,m-Xylene	8.84	0.0500	10.0		88.4	70-130			
Total Xylenes	13.2	0.0250	15.0		88.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.07		8.00		113	70-130			

LCS Dup (2508017-BSD1)

Prepared: 02/17/25 Analyzed: 02/18/25

Benzene	4.61	0.0250	5.00		92.2	70-130	2.46	20	
Ethylbenzene	4.44	0.0250	5.00		88.8	70-130	2.43	20	
Toluene	4.54	0.0250	5.00		90.8	70-130	2.30	20	
o-Xylene	4.47	0.0250	5.00		89.4	70-130	1.66	20	
p,m-Xylene	9.05	0.0500	10.0		90.5	70-130	2.31	20	
Total Xylenes	13.5	0.0250	15.0		90.1	70-130	2.10	20	
Surrogate: 4-Bromochlorobenzene-PID	9.06		8.00		113	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/21/2025 9:38:36AM

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 (2508017-BLK1) Prepared: 02/17/25 Analyzed: 02/18/25

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

LCS (2508017-BS2) Prepared: 02/17/25 Analyzed: 02/18/25

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0		82.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			

LCS Dup (2508017-BSD2) Prepared: 02/17/25 Analyzed: 02/18/25

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.7	70-130	5.14	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/21/2025 9:38:36AM

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 (2508044-BLK1)					Prepared: 02/18/25 Analyzed: 02/19/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.6		50.0		115	61-141			

LCS (2508044-BS1)					Prepared: 02/18/25 Analyzed: 02/19/25				
Diesel Range Organics (C10-C28)	287	25.0	250		115	66-144			
Surrogate: n-Nonane	56.2		50.0		112	61-141			

Matrix Spike (2508044-MS1)					Source: E502158-08		Prepared: 02/18/25 Analyzed: 02/19/25		
Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	56-156			
Surrogate: n-Nonane	54.9		50.0		110	61-141			

Matrix Spike Dup (2508044-MSD1)					Source: E502158-08		Prepared: 02/18/25 Analyzed: 02/19/25		
Diesel Range Organics (C10-C28)	300	25.0	250	ND	120	56-156	4.86	20	
Surrogate: n-Nonane	58.4		50.0		117	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/21/2025 9:38:36AM
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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 (2508029-BLK1)					Prepared: 02/17/25 Analyzed: 02/17/25				
Chloride	ND	20.0							
LCS (2508029-BS1)					Prepared: 02/17/25 Analyzed: 02/17/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2508029-MS1)					Source: E502137-07		Prepared: 02/17/25 Analyzed: 02/17/25		
Chloride	276	20.0	250	ND	110	80-120			
Matrix Spike Dup (2508029-MSD1)					Source: E502137-07		Prepared: 02/17/25 Analyzed: 02/17/25		
Chloride	276	20.0	250	ND	110	80-120	0.0634	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/21/25 09:38

- 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# E502142		Job Number 23003 C002				<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: Big Bucks Fed Com 501H				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 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																							
Sample Information										Analysis and Method				EPA Program									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA						
10:06	2/13/2025	S	1	PH01 - 3'		1						X											
10:47	2/13/2025	S	1	PH02 - 2'		2						X											
11:16	2/13/2025	S	1	PH03 - 2'		3						X											
11:46	2/13/2025	S	1	PH06 - 2'		4						X											
13:11	2/13/2025	S	1	PH07 - 2'		5						X											
14:15	2/13/2025	S	1	PH13 - 2'		6						X											
14:44	2/13/2025	S	1	PH14 - 2'		7						X											
Additional Instructions: Please CC: cburton@ensolum.com, agiovenago@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, oaderinto@ensolum.com I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Oluwale Aderinto																							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



envirotech

Envirotech Analytical Laboratory

Printed: 2/17/2025 11:43:27AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	02/17/25 08:00	Work Order ID:	E502142
Phone:	(972) 371-5200	Date Logged In:	02/14/25 15:03	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	02/21/25 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

Client remarks regarding running samples per TPH and CL results of previous samples.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501

Work Order: E502206

Job Number: 23003-0002

Received: 2/22/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/3/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 3/3/25



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

Project Name: Big Bucks Fed Com 501
Workorder: E502206
Date Received: 2/22/2025 5:00:10AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/22/2025 5:00:10AM, under the Project Name: Big Bucks Fed Com 501.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501 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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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 03/03/25 12:11
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS17-0'	E502206-01A	Soil	02/20/25	02/22/25	Glass Jar, 2 oz.
SS16-0'	E502206-02A	Soil	02/20/25	02/22/25	Glass Jar, 2 oz.
SS19-0'	E502206-03A	Soil	02/20/25	02/22/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/3/2025 12:11:36PM

SS17-0'

E502206-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2508126	
Benzene	ND	0.0250	1	02/22/25	02/22/25	
Ethylbenzene	ND	0.0250	1	02/22/25	02/22/25	
Toluene	ND	0.0250	1	02/22/25	02/22/25	
o-Xylene	ND	0.0250	1	02/22/25	02/22/25	
p,m-Xylene	ND	0.0500	1	02/22/25	02/22/25	
Total Xylenes	ND	0.0250	1	02/22/25	02/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.6 %	70-130		02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2508126	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/25	02/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.6 %	70-130		02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2508135	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/22/25	02/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/22/25	02/23/25	
<i>Surrogate: n-Nonane</i>	105 %	61-141		02/22/25	02/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2509002	
Chloride	190	20.0	1	02/23/25	02/23/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/3/2025 12:11:36PM

SS16-0'

E502206-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2508126	
Benzene	ND	0.0250	1	02/22/25	02/22/25	
Ethylbenzene	ND	0.0250	1	02/22/25	02/22/25	
Toluene	ND	0.0250	1	02/22/25	02/22/25	
o-Xylene	ND	0.0250	1	02/22/25	02/22/25	
p,m-Xylene	ND	0.0500	1	02/22/25	02/22/25	
Total Xylenes	ND	0.0250	1	02/22/25	02/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.9 %	70-130		02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2508126	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/25	02/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.5 %	70-130		02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2508135	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/22/25	02/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/22/25	02/23/25	
<i>Surrogate: n-Nonane</i>	104 %	61-141		02/22/25	02/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2509002	
Chloride	206	20.0	1	02/23/25	02/23/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/3/2025 12:11:36PM

SS19-0'

E502206-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2508126	
Benzene	ND	0.0250	1	02/22/25	02/22/25	
Ethylbenzene	ND	0.0250	1	02/22/25	02/22/25	
Toluene	ND	0.0250	1	02/22/25	02/22/25	
o-Xylene	ND	0.0250	1	02/22/25	02/22/25	
p,m-Xylene	ND	0.0500	1	02/22/25	02/22/25	
Total Xylenes	ND	0.0250	1	02/22/25	02/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.1 %	70-130	02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2508126	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/22/25	02/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.6 %	70-130	02/22/25	02/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2508135	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/22/25	02/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/22/25	02/23/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	02/22/25	02/23/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2509002	
Chloride	234	20.0	1	02/23/25	02/23/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/3/2025 12:11:36PM

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 (2508126-BLK1)

Prepared: 02/22/25 Analyzed: 02/22/25

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	7.89		8.00		98.7	70-130			

LCS (2508126-BS1)

Prepared: 02/22/25 Analyzed: 02/22/25

Benzene	5.27	0.0250	5.00		105	70-130			
Ethylbenzene	5.15	0.0250	5.00		103	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.21	0.0250	5.00		104	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	8.02		8.00		100	70-130			

Matrix Spike (2508126-MS1)

Source: E502205-05

Prepared: 02/22/25 Analyzed: 02/22/25

Benzene	5.28	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133			
Toluene	5.24	0.0250	5.00	ND	105	61-130			
o-Xylene	5.22	0.0250	5.00	ND	104	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.12		8.00		102	70-130			

Matrix Spike Dup (2508126-MSD1)

Source: E502205-05

Prepared: 02/22/25 Analyzed: 02/22/25

Benzene	5.62	0.0250	5.00	ND	112	54-133	6.28	20	
Ethylbenzene	5.49	0.0250	5.00	ND	110	61-133	6.47	20	
Toluene	5.58	0.0250	5.00	ND	112	61-130	6.32	20	
o-Xylene	5.54	0.0250	5.00	ND	111	63-131	5.89	20	
p,m-Xylene	11.2	0.0500	10.0	ND	112	63-131	6.25	20	
Total Xylenes	16.7	0.0250	15.0	ND	111	63-131	6.13	20	
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/3/2025 12:11:36PM
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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 (2508126-BLK1) Prepared: 02/22/25 Analyzed: 02/22/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.79		8.00		84.9	70-130			

LCS (2508126-BS2) Prepared: 02/22/25 Analyzed: 02/22/25

Gasoline Range Organics (C6-C10)	41.9	20.0	50.0		83.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		8.00		87.0	70-130			

Matrix Spike (2508126-MS2) Source: E502205-05 Prepared: 02/22/25 Analyzed: 02/22/25

Gasoline Range Organics (C6-C10)	41.1	20.0	50.0	ND	82.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		8.00		86.1	70-130			

Matrix Spike Dup (2508126-MSD2) Source: E502205-05 Prepared: 02/22/25 Analyzed: 02/22/25

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0	ND	83.2	70-130	1.22	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.82		8.00		85.3	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/3/2025 12:11:36PM
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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 (2508135-BLK1)					Prepared: 02/22/25 Analyzed: 02/22/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.2		50.0		92.3	61-141			

LCS (2508135-BS1)					Prepared: 02/22/25 Analyzed: 02/22/25				
Diesel Range Organics (C10-C28)	235	25.0	250		93.8	66-144			
Surrogate: n-Nonane	47.3		50.0		94.6	61-141			

Matrix Spike (2508135-MS1)					Source: E502201-05		Prepared: 02/22/25 Analyzed: 02/22/25		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	53.3		50.0		107	61-141			

Matrix Spike Dup (2508135-MSD1)					Source: E502201-05		Prepared: 02/22/25 Analyzed: 02/22/25		
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156	1.52	20	
Surrogate: n-Nonane	54.0		50.0		108	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/3/2025 12:11:36PM
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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 (2509002-BLK1)					Prepared: 02/23/25 Analyzed: 02/23/25				
Chloride	ND	20.0							
LCS (2509002-BS1)					Prepared: 02/23/25 Analyzed: 02/23/25				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2509002-MS1)					Source: E502205-11		Prepared: 02/23/25 Analyzed: 02/23/25		
Chloride	1560	20.0	250	1370	77.5	80-120			M4
Matrix Spike Dup (2509002-MSD1)					Source: E502205-11		Prepared: 02/23/25 Analyzed: 02/23/25		
Chloride	1580	20.0	250	1370	86.8	80-120	1.47	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:	Big Bucks Fed Com 501	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/03/25 12:11

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

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

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



Page 1 of 1



Chain of Custody

[illegible]

Envirotech Analytical Laboratory

Printed: 2/24/2025 3:00:19PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	02/22/25 05:00	Work Order ID:	E502206
Phone:	(972) 371-5200	Date Logged In:	02/21/25 15:53	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	02/28/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

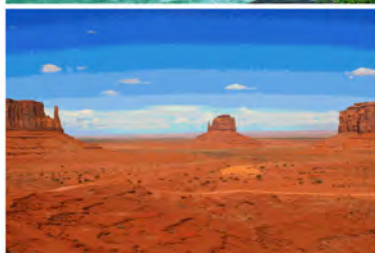
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501

Work Order: E502255

Job Number: 23003-0002

Received: 2/26/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 3/4/25



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

Project Name: Big Bucks Fed Com 501
Workorder: E502255
Date Received: 2/26/2025 4:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/26/2025 4:30:00AM, under the Project Name: Big Bucks Fed Com 501.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501 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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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: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
03/04/25 08:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS16-1'	E502255-01A	Soil	02/24/25	02/26/25	Glass Jar, 2 oz.
SS17-1'	E502255-02A	Soil	02/24/25	02/26/25	Glass Jar, 2 oz.
SS19-1'	E502255-03A	Soil	02/24/25	02/26/25	Glass Jar, 2 oz.
SS18-0'	E502255-04A	Soil	02/24/25	02/26/25	Glass Jar, 2 oz.
SS20-0'	E502255-05A	Soil	02/24/25	02/26/25	Glass Jar, 2 oz.
SS21-0'	E502255-06A	Soil	02/24/25	02/26/25	Glass Jar, 2 oz.
SS18-1'	E502255-07A	Soil	02/24/25	02/26/25	Glass Jar, 2 oz.
SS20-1'	E502255-08A	Soil	02/24/25	02/26/25	Glass Jar, 2 oz.
SS21-1'	E502255-09A	Soil	02/24/25	02/26/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/4/2025 8:03:02AM
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SS16-1'

E502255-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2509071	
Benzene	ND	0.0250	1	02/26/25	02/26/25	
Ethylbenzene	ND	0.0250	1	02/26/25	02/26/25	
Toluene	ND	0.0250	1	02/26/25	02/26/25	
o-Xylene	ND	0.0250	1	02/26/25	02/26/25	
p,m-Xylene	ND	0.0500	1	02/26/25	02/26/25	
Total Xylenes	ND	0.0250	1	02/26/25	02/26/25	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %	70-130	02/26/25	02/26/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.1 %	70-130	02/26/25	02/26/25	
<i>Surrogate: Toluene-d8</i>		97.1 %	70-130	02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2509071	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/25	02/26/25	
<i>Surrogate: Bromofluorobenzene</i>		96.2 %	70-130	02/26/25	02/26/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.1 %	70-130	02/26/25	02/26/25	
<i>Surrogate: Toluene-d8</i>		97.1 %	70-130	02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2509078	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/25	02/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/25	02/26/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	02/26/25	02/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2509087	
Chloride	82.1	20.0	1	02/26/25	02/26/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/4/2025 8:03:02AM

SS17-1'

E502255-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2509071
Benzene	ND	0.0250	1	02/26/25	02/26/25	
Ethylbenzene	ND	0.0250	1	02/26/25	02/26/25	
Toluene	ND	0.0250	1	02/26/25	02/26/25	
o-Xylene	ND	0.0250	1	02/26/25	02/26/25	
p,m-Xylene	ND	0.0500	1	02/26/25	02/26/25	
Total Xylenes	ND	0.0250	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	94.0 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	96.4 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2509071
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	94.0 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	96.4 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2509078
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/25	02/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/25	02/26/25	
Surrogate: n-Nonane	112 %	61-141		02/26/25	02/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2509087
Chloride	220	20.0	1	02/26/25	02/26/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/4/2025 8:03:02AM

SS19-1'

E502255-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2509071
Benzene	ND	0.0250	1	02/26/25	02/26/25	
Ethylbenzene	ND	0.0250	1	02/26/25	02/26/25	
Toluene	ND	0.0250	1	02/26/25	02/26/25	
o-Xylene	ND	0.0250	1	02/26/25	02/26/25	
p,m-Xylene	ND	0.0500	1	02/26/25	02/26/25	
Total Xylenes	ND	0.0250	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	94.3 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	95.7 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2509071
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	94.3 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	95.7 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2509078
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/25	02/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/25	02/26/25	
Surrogate: n-Nonane	116 %	61-141		02/26/25	02/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2509087
Chloride	165	20.0	1	02/26/25	02/26/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/4/2025 8:03:02AM

SS18-0'

E502255-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2509071	
Benzene	ND	0.0250	1	02/26/25	02/26/25	
Ethylbenzene	ND	0.0250	1	02/26/25	02/26/25	
Toluene	ND	0.0250	1	02/26/25	02/26/25	
o-Xylene	ND	0.0250	1	02/26/25	02/26/25	
p,m-Xylene	ND	0.0500	1	02/26/25	02/26/25	
Total Xylenes	ND	0.0250	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	96.8 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	99.3 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2509071	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	96.8 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	99.3 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2509078	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/25	02/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/25	02/26/25	
Surrogate: n-Nonane	115 %	61-141		02/26/25	02/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2509087	
Chloride	302	20.0	1	02/26/25	02/26/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/4/2025 8:03:02AM

SS20-0'

E502255-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2509071
Benzene	ND	0.0250	1	02/26/25	02/26/25	
Ethylbenzene	ND	0.0250	1	02/26/25	02/26/25	
Toluene	ND	0.0250	1	02/26/25	02/26/25	
o-Xylene	ND	0.0250	1	02/26/25	02/26/25	
p,m-Xylene	ND	0.0500	1	02/26/25	02/26/25	
Total Xylenes	ND	0.0250	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	97.6 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	97.6 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2509071
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	97.6 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	97.6 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2509078
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/25	02/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/25	02/26/25	
Surrogate: n-Nonane	108 %	61-141		02/26/25	02/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2509087
Chloride	204	20.0	1	02/26/25	02/26/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/4/2025 8:03:02AM

SS21-0'

E502255-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2509071	
Benzene	ND	0.0250	1	02/26/25	02/26/25	
Ethylbenzene	ND	0.0250	1	02/26/25	02/26/25	
Toluene	ND	0.0250	1	02/26/25	02/26/25	
o-Xylene	ND	0.0250	1	02/26/25	02/26/25	
p,m-Xylene	ND	0.0500	1	02/26/25	02/26/25	
Total Xylenes	ND	0.0250	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	96.9 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	97.6 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2509071	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	96.9 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	97.6 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2509078	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/25	02/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/25	02/26/25	
Surrogate: n-Nonane	100 %	61-141		02/26/25	02/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2509087	
Chloride	87.3	20.0	1	02/26/25	02/26/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/4/2025 8:03:02AM

SS18-1'

E502255-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2509071
Benzene	ND	0.0250	1	02/26/25	02/26/25	
Ethylbenzene	ND	0.0250	1	02/26/25	02/26/25	
Toluene	ND	0.0250	1	02/26/25	02/26/25	
o-Xylene	ND	0.0250	1	02/26/25	02/26/25	
p,m-Xylene	ND	0.0500	1	02/26/25	02/26/25	
Total Xylenes	ND	0.0250	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	95.4 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	99.5 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2509071
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	95.4 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	99.5 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2509078
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/25	02/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/25	02/26/25	
Surrogate: n-Nonane	112 %	61-141		02/26/25	02/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2509087
Chloride	225	20.0	1	02/26/25	02/26/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/4/2025 8:03:02AM

SS20-1'

E502255-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2509071
Benzene	ND	0.0250	1	02/26/25	02/26/25	
Ethylbenzene	ND	0.0250	1	02/26/25	02/26/25	
Toluene	ND	0.0250	1	02/26/25	02/26/25	
o-Xylene	ND	0.0250	1	02/26/25	02/26/25	
p,m-Xylene	ND	0.0500	1	02/26/25	02/26/25	
Total Xylenes	ND	0.0250	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	96.3 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	98.3 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2509071
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	96.3 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	98.3 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2509078
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/25	02/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/25	02/26/25	
Surrogate: n-Nonane	110 %	61-141		02/26/25	02/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2509087
Chloride	318	20.0	1	02/26/25	02/26/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/4/2025 8:03:02AM

SS21-1'

E502255-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2509071
Benzene	ND	0.0250	1	02/26/25	02/26/25	
Ethylbenzene	ND	0.0250	1	02/26/25	02/26/25	
Toluene	ND	0.0250	1	02/26/25	02/26/25	
o-Xylene	ND	0.0250	1	02/26/25	02/26/25	
p,m-Xylene	ND	0.0500	1	02/26/25	02/26/25	
Total Xylenes	ND	0.0250	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	95.5 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	97.8 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2509071
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/25	02/26/25	
Surrogate: Bromofluorobenzene	95.5 %	70-130		02/26/25	02/26/25	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		02/26/25	02/26/25	
Surrogate: Toluene-d8	97.8 %	70-130		02/26/25	02/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2509078
Diesel Range Organics (C10-C28)	ND	25.0	1	02/26/25	02/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/25	02/26/25	
Surrogate: n-Nonane	108 %	61-141		02/26/25	02/26/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2509087
Chloride	34.1	20.0	1	02/26/25	02/26/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/4/2025 8:03:02AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2509071-BLK1)

Prepared: 02/26/25 Analyzed: 02/26/25

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: Bromofluorobenzene	0.474		0.500		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.476		0.500		95.2	70-130			

LCS (2509071-BS1)

Prepared: 02/26/25 Analyzed: 02/26/25

Benzene	2.21	0.0250	2.50		88.3	70-130			
Ethylbenzene	2.14	0.0250	2.50		85.7	70-130			
Toluene	2.09	0.0250	2.50		83.4	70-130			
o-Xylene	2.07	0.0250	2.50		82.8	70-130			
p,m-Xylene	4.17	0.0500	5.00		83.4	70-130			
Total Xylenes	6.24	0.0250	7.50		83.2	70-130			
Surrogate: Bromofluorobenzene	0.484		0.500		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.481		0.500		96.1	70-130			

Matrix Spike (2509071-MS1)

Source: E502255-08

Prepared: 02/26/25 Analyzed: 02/26/25

Benzene	2.30	0.0250	2.50	ND	92.2	48-131			
Ethylbenzene	2.22	0.0250	2.50	ND	88.9	45-135			
Toluene	2.16	0.0250	2.50	ND	86.6	48-130			
o-Xylene	2.05	0.0250	2.50	ND	82.0	43-135			
p,m-Xylene	4.12	0.0500	5.00	ND	82.3	43-135			
Total Xylenes	6.17	0.0250	7.50	ND	82.2	43-135			
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.471		0.500		94.2	70-130			

Matrix Spike Dup (2509071-MSD1)

Source: E502255-08

Prepared: 02/26/25 Analyzed: 02/26/25

Benzene	2.40	0.0250	2.50	ND	96.0	48-131	4.08	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.3	45-135	5.87	27	
Toluene	2.29	0.0250	2.50	ND	91.5	48-130	5.50	24	
o-Xylene	2.26	0.0250	2.50	ND	90.5	43-135	9.90	27	
p,m-Xylene	4.53	0.0500	5.00	ND	90.5	43-135	9.51	27	
Total Xylenes	6.79	0.0250	7.50	ND	90.5	43-135	9.64	27	
Surrogate: Bromofluorobenzene	0.485		0.500		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.476		0.500		95.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/4/2025 8:03:02AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2509071-BLK1)

Prepared: 02/26/25 Analyzed: 02/26/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.474		0.500		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.476		0.500		95.2	70-130			

LCS (2509071-BS2)

Prepared: 02/26/25 Analyzed: 02/26/25

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			

Matrix Spike (2509071-MS2)

Source: E502255-08

Prepared: 02/26/25 Analyzed: 02/26/25

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			

Matrix Spike Dup (2509071-MSD2)

Source: E502255-08

Prepared: 02/26/25 Analyzed: 02/26/25

Gasoline Range Organics (C6-C10)	54.4	20.0	50.0	ND	109	70-130	4.04	20	
Surrogate: Bromofluorobenzene	0.476		0.500		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/4/2025 8:03:02AM

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 (2509078-BLK1) Prepared: 02/26/25 Analyzed: 02/26/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.4		50.0		103	61-141			

LCS (2509078-BS1) Prepared: 02/26/25 Analyzed: 02/26/25

Diesel Range Organics (C10-C28)	258	25.0	250		103	66-144			
Surrogate: n-Nonane	53.7		50.0		107	61-141			

Matrix Spike (2509078-MS1) Source: E502255-05 Prepared: 02/26/25 Analyzed: 02/26/25

Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	52.4		50.0		105	61-141			

Matrix Spike Dup (2509078-MSD1) Source: E502255-05 Prepared: 02/26/25 Analyzed: 02/26/25

Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	56-156	4.51	20	
Surrogate: n-Nonane	54.3		50.0		109	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/4/2025 8:03:02AM
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Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2509087-BLK1)					Prepared: 02/26/25 Analyzed: 02/26/25				
Chloride	ND	20.0							
LCS (2509087-BS1)					Prepared: 02/26/25 Analyzed: 02/26/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2509087-MS1)					Source: E502255-06		Prepared: 02/26/25 Analyzed: 02/26/25		
Chloride	342	20.0	250	87.3	102	80-120			
Matrix Spike Dup (2509087-MSD1)					Source: E502255-06		Prepared: 02/26/25 Analyzed: 02/26/25		
Chloride	345	20.0	250	87.3	103	80-120	0.680	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:	Big Bucks Fed Com 501	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/04/25 08:03

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

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

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



Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project: Big Bucks Fed Com 501				Address: 3122 National Parks Hwy		E502255	23003-0002				x	x						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Remarks			
10:40	2/24/2025	Soil	1	SS01 - 1'		1						X						
11:23	2/24/2025	Soil	1	SS02 - 1'		2						X						
11:48	2/24/2025	Soil	1	SS04 - 1'		3						X						
12:57	2/24/2025	Soil	1	SS03 - 0'		4						X						
14:00	2/24/2025	Soil	1	SS05 - 0'		5						X						
14:07	2/24/2025	Soil	1	SS06 - 0'		6						X						
15:43	2/24/2025	Soil	1	SS03 - 1'		7						X						
16:18	2/24/2025	Soil	1	SS05 - 1'		8						X						
16:31	2/24/2025	Soil	1	SS06 - 1'		9						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Jenna Hinkle																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4										
Jenna Hinkle		2/25/25		Michelle Gonzales		2-25-25	1045											
Michelle Gonzales		2-25-25	1530	[Signature]		2-25-25	1700											
[Signature]		2-25-25	2330	[Signature]		2-26-25	0430											
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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Received by OCD: 5/27/2025 1:00:10 PM

Released to Imaging: 7/14/2025 3:02:16 PM

Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project: Big Bucks Fed Com 501				Address: 3122 National Parks Hwy		E502255	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	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
10:40	2/24/2025	Soil	1	SS01-1' SS16-1'		1						X						
11:23	2/24/2025	Soil	1	SS02-1' SS17-1'		2						X						
11:48	2/24/2025	Soil	1	SS04-1' SS19-1'		3						X						
12:57	2/24/2025	Soil	1	SS03-0' SS18-0'		4						X						
14:00	2/24/2025	Soil	1	SS05-0' SS20-0'		5						X						
14:07	2/24/2025	Soil	1	SS06-0' SS21-0'		6						X						
15:43	2/24/2025	Soil	1	SS03-1' SS18-1'		7						X						
16:18	2/24/2025	Soil	1	SS05-1' SS20-1'		8						X						
16:31	2/24/2025	Soil	1	SS06-1' SS21-1'		9						X						
						On 3/3/25												
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Jenna Hinkle																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4										
Jenna Hinkle		2/25/25		Michelle Gonzales		2-25-25	1045											
Michelle Gonzales		2-25-25	1530	LLH		2-25-25	1700											
Jenna Hinkle		2-25-25	2330	Michelle Gonzales		2-26-25	0430											
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: 2/26/2025 11:05:23AM

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:	02/26/25 04:30	Work Order ID:	E502255
Phone:	(972) 371-5200	Date Logged In:	02/25/25 15:26	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	03/04/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

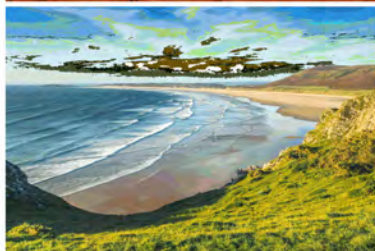
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E503223

Job Number: 23003-0002

Received: 3/27/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/2/25

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: 4/2/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E503223
Date Received: 3/27/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/27/2025 7:30:00AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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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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: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
04/02/25 08:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS32 - 0'	E503223-01A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS57 - 0'	E503223-02A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS58 - 0'	E503223-03A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS59 - 0'	E503223-04A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS60 - 0'	E503223-05A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS61 - 0'	E503223-06A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS62 - 0'	E503223-07A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS63 - 0'	E503223-08A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS64 - 0'	E503223-09A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS65 - 0'	E503223-10A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS66 - 0'	E503223-11A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS67 - 0'	E503223-12A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS69 - 0'	E503223-13A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS70 - 0'	E503223-14A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS71 - 0'	E503223-15A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS72 - 0'	E503223-16A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS74 - 0'	E503223-17A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS75 - 0'	E503223-18A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS76 - 0'	E503223-19A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS77 - 0'	E503223-20A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS32 - 0'

E503223-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.5 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.9 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	157	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	310	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>	98.5 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	3040	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS57 - 0'

E503223-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.6 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	54.8	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	123	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	100 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	216	20.0	1	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS58 - 0'

E503223-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2513082
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2513082
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.3 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2513078
Diesel Range Organics (C10-C28)	76.9	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	167	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513081
Chloride	828	20.0	1	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS59 - 0'

E503223-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.8 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	238	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	274	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	2540	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS60 - 0'

E503223-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.0 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	112	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	284	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	98.2 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	821	20.0	1	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS61 - 0'

E503223-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.6 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.7 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	86.5	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	173	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	97.4 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	1490	20.0	1	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS62 - 0'

E503223-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.4 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	900	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	382	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	95.3 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	3090	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS63 - 0'

E503223-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.7 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.7 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	514	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	447	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>	99.6 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	1810	20.0	1	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS64 - 0'

E503223-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.3 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	361	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	644	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	102 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	2960	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS65 - 0'

E503223-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.0 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	153	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	335	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	102 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	2060	20.0	1	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS66 - 0'

E503223-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.4 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	216	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	465	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	97.4 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	3970	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS67 - 0'

E503223-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.2 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	339	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	580	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	102 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	4360	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS69 - 0'

E503223-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.5 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	6070	500	20	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	14100	1000	20	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	91.2 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	1180	20.0	1	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS70 - 0'

E503223-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.9 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	38.4	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	58.9	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	96.8 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	4230	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS71 - 0'

E503223-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.4 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.6 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	34.8	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	76.6	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>	96.9 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	155	20.0	1	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS72 - 0'

E503223-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.7 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	127	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	207	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	96.8 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	2780	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS74 - 0'

E503223-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.9 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	191	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	179	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	99.0 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	1730	20.0	1	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS75 - 0'

E503223-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.5 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	97.8	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	168	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	96.1 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	1290	20.0	1	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS76 - 0'

E503223-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.4 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	652	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	691	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	100 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	3570	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/2/2025 8:26:22AM

FS77 - 0'

E503223-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Benzene	ND	0.0250	1	03/27/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/29/25	
Toluene	ND	0.0250	1	03/27/25	03/29/25	
o-Xylene	ND	0.0250	1	03/27/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2513082	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.8 %	70-130		03/27/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2513078	
Diesel Range Organics (C10-C28)	174	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	248	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513081	
Chloride	2180	20.0	1	03/27/25	03/27/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/2/2025 8:26:22AM

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 (2513082-BLK1)

Prepared: 03/27/25 Analyzed: 03/28/25

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	7.54		8.00		94.3	70-130			

LCS (2513082-BS1)

Prepared: 03/27/25 Analyzed: 03/28/25

Benzene	5.40	0.0250	5.00		108	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.30	0.0250	5.00		106	70-130			
o-Xylene	5.10	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	7.60		8.00		95.0	70-130			

Matrix Spike (2513082-MS1)

Source: E503223-06

Prepared: 03/27/25 Analyzed: 03/28/25

Benzene	5.63	0.0250	5.00	ND	113	70-130			
Ethylbenzene	5.30	0.0250	5.00	ND	106	70-130			
Toluene	5.51	0.0250	5.00	ND	110	70-130			
o-Xylene	5.28	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	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2513082-MSD1)

Source: E503223-06

Prepared: 03/27/25 Analyzed: 03/28/25

Benzene	5.60	0.0250	5.00	ND	112	70-130	0.531	27	
Ethylbenzene	5.30	0.0250	5.00	ND	106	70-130	0.0273	26	
Toluene	5.49	0.0250	5.00	ND	110	70-130	0.439	20	
o-Xylene	5.29	0.0250	5.00	ND	106	70-130	0.0710	25	
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130	0.143	23	
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130	0.119	26	
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/2/2025 8:26:22AM

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 (2513082-BLK1)					Prepared: 03/27/25 Analyzed: 03/28/25				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.73		8.00		84.1	70-130			
LCS (2513082-BS2)					Prepared: 03/27/25 Analyzed: 03/28/25				
Gasoline Range Organics (C6-C10)	36.5	20.0	50.0		72.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			
Matrix Spike (2513082-MS2)					Source: E503223-06		Prepared: 03/27/25 Analyzed: 03/28/25		
Gasoline Range Organics (C6-C10)	37.9	20.0	50.0	ND	75.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.7	70-130			
Matrix Spike Dup (2513082-MSD2)					Source: E503223-06		Prepared: 03/27/25 Analyzed: 03/28/25		
Gasoline Range Organics (C6-C10)	38.3	20.0	50.0	ND	76.6	70-130	1.09	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/2/2025 8:26:22AM

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 (2513078-BLK1)					Prepared: 03/27/25 Analyzed: 03/27/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.4	61-141			

LCS (2513078-BS1)					Prepared: 03/27/25 Analyzed: 03/27/25				
Diesel Range Organics (C10-C28)	264	25.0	250		105	66-144			
Surrogate: n-Nonane	49.4		50.0		98.8	61-141			

Matrix Spike (2513078-MS1)					Source: E503223-04		Prepared: 03/27/25 Analyzed: 03/28/25		
Diesel Range Organics (C10-C28)	552	25.0	250	238	126	56-156			
Surrogate: n-Nonane	50.1		50.0		100	61-141			

Matrix Spike Dup (2513078-MSD1)					Source: E503223-04		Prepared: 03/27/25 Analyzed: 03/28/25		
Diesel Range Organics (C10-C28)	524	25.0	250	238	114	56-156	5.22	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: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/2/2025 8:26:22AM
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Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2513081-BLK1)					Prepared: 03/27/25 Analyzed: 03/27/25				
Chloride	ND	20.0							
LCS (2513081-BS1)					Prepared: 03/27/25 Analyzed: 03/27/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2513081-MS1)					Source: E503223-05		Prepared: 03/27/25 Analyzed: 03/27/25		
Chloride	1120	20.0	250	821	118	80-120			
Matrix Spike Dup (2513081-MSD1)					Source: E503223-05		Prepared: 03/27/25 Analyzed: 03/27/25		
Chloride	1110	20.0	250	821	117	80-120	0.195	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/02/25 08:26

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Page 1 of 4

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX						
Project: Big Bucks FED COM 501H				Address: 3122 National Parks Hwy		E503223		Job Number				23003-0002						
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	
															Compliance	Y	or	N
															PWSID #			
															Remarks			
1254	3/25/2025	S	1	FS32 - 0'		1						X						
0937	3/25/2025	S	1	FS57 - 0'		2						X						
0932	3/25/2025	S	1	FS58 - 0'		3						X						
0941	3/25/2025	S	1	FS59 - 0'		4						X						
0932	3/25/2025	S	1	FS60 - 0'		5						X						
0943	3/25/2025	S	1	FS61 - 0'		6						X						
0943	3/25/2025	S	1	FS62 - 0'		7						X						
0946	3/25/2025	S	1	FS63 - 0'		8						X						
0930	3/25/2025	S	1	FS64 - 0'		9						X						
1254	3/25/2025	S	1	FS65 - 0'		10						X						
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Higinio Gonzalez, Aboubakar Kone, Oluwale Adeniji																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



envirotech

Chain of Custody

Page 2 of 4

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX						
Project: Big Bucks FED COM 501H				Address: 3122 National Parks Hwy		E503223		Job Number				25005-0002						
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/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
																		Remarks
1303	3/25/2025	S	1	FS66 - 0'		11						X						
0928	3/25/2025	S	1	FS67 - 0'		12						X						
1252	3/25/2025	S	1	FS69 - 0'		13						X						
1250	3/25/2025	S	1	FS70 - 0'		14						X						
0927	3/25/2025	S	1	FS71 - 0'		15						X						
0946	3/25/2025	S	1	FS72 - 0'		16						X						
0922	3/25/2025	S	1	FS74 - 0'		17						X						
0918	3/25/2025	S	1	FS75 - 0'		18						X						
0947	3/25/2025	S	1	FS76 - 0'		19						X						
0918	3/25/2025	S	1	FS77 - 0'		20						X						
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Higinio Gonzalez, Abubakar Kone, Higinio Gonzalez, Abubakar Kone																		
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



envirotech

Envirotech Analytical Laboratory

Printed: 3/27/2025 8:13:40AM

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:	03/27/25 07:30	Work Order ID:	E503223
Phone:	(972) 371-5200	Date Logged In:	03/26/25 15:37	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	04/02/25 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/Resolution

Project Big Bucks Fed Com 501H has been separated into multiple WOs due to sample volume, WOs are E503223 and E503224.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

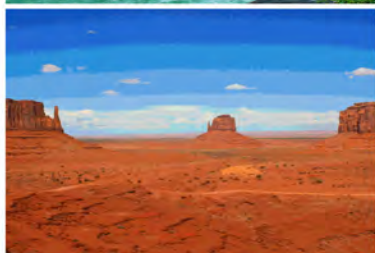
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E503224

Job Number: 23003-0002

Received: 3/27/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/3/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/3/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E503224
Date Received: 3/27/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/27/2025 7:30:00AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
04/03/25 12:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS78 - 0'	E503224-01A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS80 - 0'	E503224-02A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS82 - 0'	E503224-03A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS83 - 0'	E503224-04A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS84 - 0'	E503224-05A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS95 - 0'	E503224-06A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS96 - 0'	E503224-07A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS97 - 0'	E503224-08A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS99 - 0'	E503224-09A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS101 - 0'	E503224-10A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS106 - 0'	E503224-11A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS107 - 0'	E503224-12A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS108 - 0'	E503224-13A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS109 - 0'	E503224-14A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS110 - 0'	E503224-15A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS111 - 0'	E503224-16A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS112 - 0'	E503224-17A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS113 - 0'	E503224-18A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.
FS193 - 0'	E503224-19A	Soil	03/25/25	03/27/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 12:03:59PM
---	--	---

FS78 - 0'

E503224-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Benzene	ND	0.0500	2	03/27/25	04/02/25	
Ethylbenzene	ND	0.0500	2	03/27/25	04/02/25	
Toluene	ND	0.0500	2	03/27/25	04/02/25	
o-Xylene	ND	0.0500	2	03/27/25	04/02/25	
p,m-Xylene	ND	0.100	2	03/27/25	04/02/25	
Total Xylenes	ND	0.0500	2	03/27/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.0 %	70-130		03/27/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Gasoline Range Organics (C6-C10)	ND	40.0	2	03/27/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.0 %	70-130		03/27/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2513077	
Diesel Range Organics (C10-C28)	340	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	437	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>	105 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2513086	
Chloride	5530	100	5	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS80 - 0'

E503224-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.9 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	81.5 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2513077	
Diesel Range Organics (C10-C28)	433	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	683	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>	103 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2513086	
Chloride	4880	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS82 - 0'

E503224-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.5 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2513077
Diesel Range Organics (C10-C28)	419	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	207	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513086
Chloride	7460	100	5	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS83 - 0'

E503224-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.2 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2513077	
Diesel Range Organics (C10-C28)	339	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	369	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	114 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513086	
Chloride	2590	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS84 - 0'

E503224-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.7 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2513077	
Diesel Range Organics (C10-C28)	217	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	217	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	126 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513086	
Chloride	5910	100	5	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS95 - 0'

E503224-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.3 %	70-130	03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2513077
Diesel Range Organics (C10-C28)	338	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	450	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
		132 %	61-141	03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513086
Chloride	2120	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS96 - 0'

E503224-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.7 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2513077	
Diesel Range Organics (C10-C28)	349	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	305	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	127 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513086	
Chloride	4890	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS97 - 0'

E503224-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.4 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2513077
Diesel Range Organics (C10-C28)	519	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	411	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	127 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513086
Chloride	4140	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS99 - 0'

E503224-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Benzene	ND	0.0250	1	03/27/25	04/02/25	
Ethylbenzene	ND	0.0250	1	03/27/25	04/02/25	
Toluene	ND	0.0250	1	03/27/25	04/02/25	
o-Xylene	ND	0.0250	1	03/27/25	04/02/25	
p,m-Xylene	ND	0.0500	1	03/27/25	04/02/25	
Total Xylenes	ND	0.0250	1	03/27/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		03/27/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.2 %	70-130		03/27/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2513077	
Diesel Range Organics (C10-C28)	289	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	605	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	131 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513086	
Chloride	3040	40.0	2	03/27/25	03/27/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 12:03:59PM
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FS101 - 0'

E503224-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.2 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2513077	
Diesel Range Organics (C10-C28)	413	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	875	50.0	1	03/27/25	03/27/25	
Surrogate: n-Nonane	134 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2513086	
Chloride	2740	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS106 - 0'

E503224-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.7 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2513077
Diesel Range Organics (C10-C28)	394	25.0	1	03/27/25	03/27/25	
Oil Range Organics (C28-C36)	580	50.0	1	03/27/25	03/27/25	
<i>Surrogate: n-Nonane</i>						
	106 %	61-141		03/27/25	03/27/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513086
Chloride	3440	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS107 - 0'

E503224-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.9 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2513077
Diesel Range Organics (C10-C28)	243	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	306	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	106 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513086
Chloride	4060	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS108 - 0'

E503224-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.8 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2513077
Diesel Range Organics (C10-C28)	710	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	516	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	99.4 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513086
Chloride	2710	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS109 - 0'

E503224-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.3 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2513077
Diesel Range Organics (C10-C28)	487	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	550	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	104 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513086
Chloride	2090	20.0	1	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS110 - 0'

E503224-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.8 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2513077	
Diesel Range Organics (C10-C28)	184	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	285	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513086	
Chloride	7090	100	5	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS111 - 0'

E503224-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.3 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2513077
Diesel Range Organics (C10-C28)	119	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	145	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	106 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513086
Chloride	3630	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS112 - 0'

E503224-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.1 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2513077
Diesel Range Organics (C10-C28)	106	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	109	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513086
Chloride	1440	20.0	1	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS113 - 0'

E503224-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513083
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.7 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2513077
Diesel Range Organics (C10-C28)	170	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	232	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513086
Chloride	3880	40.0	2	03/27/25	03/27/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:59PM

FS193 - 0'

E503224-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Benzene	ND	0.0250	1	03/27/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/27/25	03/28/25	
Toluene	ND	0.0250	1	03/27/25	03/28/25	
o-Xylene	ND	0.0250	1	03/27/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/27/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/27/25	03/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2513083	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/25	03/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		03/27/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2513077	
Diesel Range Organics (C10-C28)	151	25.0	1	03/27/25	03/28/25	
Oil Range Organics (C28-C36)	133	50.0	1	03/27/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	110 %	61-141		03/27/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2513086	
Chloride	1280	20.0	1	03/27/25	03/27/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 12:03:59PM

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 (2513083-BLK1) Prepared: 03/27/25 Analyzed: 03/27/25

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 (2513083-BS1) Prepared: 03/27/25 Analyzed: 04/02/25

Benzene	5.23	0.0250	5.00		105	70-130			
Ethylbenzene	5.24	0.0250	5.00		105	70-130			
Toluene	5.31	0.0250	5.00		106	70-130			
o-Xylene	5.25	0.0250	5.00		105	70-130			
p,m-Xylene	10.6	0.0500	10.0		106	70-130			
Total Xylenes	15.9	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.2	70-130			

Matrix Spike (2513083-MS1) Source: E503224-09 Prepared: 03/27/25 Analyzed: 04/02/25

Benzene	5.24	0.0250	5.00	ND	105	70-130			
Ethylbenzene	5.23	0.0250	5.00	ND	105	70-130			
Toluene	5.31	0.0250	5.00	ND	106	70-130			
o-Xylene	5.22	0.0250	5.00	ND	104	70-130			
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130			
Total Xylenes	15.8	0.0250	15.0	ND	105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

Matrix Spike Dup (2513083-MSD1) Source: E503224-09 Prepared: 03/27/25 Analyzed: 04/02/25

Benzene	5.77	0.0250	5.00	ND	115	70-130	9.59	27	
Ethylbenzene	5.50	0.0250	5.00	ND	110	70-130	5.04	26	
Toluene	5.67	0.0250	5.00	ND	113	70-130	6.58	20	
o-Xylene	5.45	0.0250	5.00	ND	109	70-130	4.44	25	
p,m-Xylene	11.1	0.0500	10.0	ND	111	70-130	5.00	23	
Total Xylenes	16.6	0.0250	15.0	ND	111	70-130	4.81	26	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 12:03:59PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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

Blank (2513083-BLK1) Prepared: 03/27/25 Analyzed: 03/27/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.10		8.00		88.7	70-130			

LCS (2513083-BS2) Prepared: 03/27/25 Analyzed: 03/28/25

Gasoline Range Organics (C6-C10)	35.8	20.0	50.0		71.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

Matrix Spike (2513083-MS2) Source: E503224-09 Prepared: 03/27/25 Analyzed: 03/28/25

Gasoline Range Organics (C6-C10)	38.5	20.0	50.0	ND	77.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			

Matrix Spike Dup (2513083-MSD2) Source: E503224-09 Prepared: 03/27/25 Analyzed: 04/02/25

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130	15.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 12:03:59PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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

Blank (2513077-BLK1)					Prepared: 03/27/25 Analyzed: 03/27/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.8		50.0		104	61-141			

LCS (2513077-BS1)					Prepared: 03/27/25 Analyzed: 03/27/25				
Diesel Range Organics (C10-C28)	264	25.0	250		105	66-144			
Surrogate: n-Nonane	52.8		50.0		106	61-141			

Matrix Spike (2513077-MS1)					Source: E503224-17		Prepared: 03/27/25 Analyzed: 03/27/25		
Diesel Range Organics (C10-C28)	372	25.0	250	106	106	56-156			
Surrogate: n-Nonane	50.0		50.0		99.9	61-141			

Matrix Spike Dup (2513077-MSD1)					Source: E503224-17		Prepared: 03/27/25 Analyzed: 03/27/25		
Diesel Range Organics (C10-C28)	367	25.0	250	106	104	56-156	1.55	20	
Surrogate: n-Nonane	51.9		50.0		104	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 12:03:59PM
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Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2513086-BLK1)					Prepared: 03/27/25 Analyzed: 03/27/25				
Chloride	ND	20.0							
LCS (2513086-BS1)					Prepared: 03/27/25 Analyzed: 03/27/25				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2513086-MS1)					Source: E503224-03		Prepared: 03/27/25 Analyzed: 03/27/25		
Chloride	7310	100	250	7460	NR	80-120			M4
Matrix Spike Dup (2513086-MSD1)					Source: E503224-03		Prepared: 03/27/25 Analyzed: 03/27/25		
Chloride	6850	100	250	7460	NR	80-120	6.50	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/03/25 12:03

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

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

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



Chain of Custody

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Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador				Company: Ensolum LLC		Lab WO#		1D		2D		3D		Std			
Project: Big Bucks FED COM 501H				Address: 3122 National Parks Hwy		E503224		Job Number		23008-0002				X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220										NM CO UT TX			
Address: 3122 National Parks Hwy				Phone: 575-988-0055										X			
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
0923	3/25/2025	S	1	FS78 - 0'		1						X					
1248	3/25/2025	S	1	FS80 - 0'		2						X					
0920	3/25/2025	S	1	FS82 - 0'		3						X					
1244	3/25/2025	S	1	FS83 - 0'		4						X					
1242	3/25/2025	S	1	FS84 - 0'		5						X					
1319	3/25/2025	S	1	FS95 - 0'		6						X					
1319	3/25/2025	S	1	FS96 - 0'		7						X					
1320	3/25/2025	S	1	FS97 - 0'		8						X					
1315	3/25/2025	S	1	FS99 - 0'		9						X					
1305	3/25/2025	S	1	FS101 - 0'		10						X					
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Higinio Gonzalez, Aboubakar Kone, Oluwale Aderinto																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



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Received by OCD: 5/27/2025 1:00:10 PM

Released to Imaging: 7/14/2025 3:02:16 PM

Chain of Custody

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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: Big Bucks FED COM 501H					Address: 3122 National Parks Hwy			E503724		28008-0002					X	X						
Project Manager: Ashley Giovengo					City, State, Zip: Carlsbad NM, 88220																	
Address: 3122 National Parks Hwy					Phone: 575-988-0055																	
City, State, Zip: Carlsbad NM, 88220					Email: agiovengo@ensolum.com																	
Phone: 575-988-0055					Miscellaneous:																	
Email: agiovengo@ensolum.com																						
Sample Information										Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	Y	or	N
																			PWSID #			
1317	3/25/2025	S	1	FS106 - 0'			11						X									
1315	3/25/2025	S	1	FS107 - 0'			12						X									
1321	3/25/2025	S	1	FS108 - 0'			13						X									
1323	3/25/2025	S	1	FS109 - 0'			14						X									
1252	3/25/2025	S	1	FS110 - 0'			15						X									
1250	3/25/2025	S	1	FS111 - 0'			16						X									
1255	3/25/2025	S	1	FS112 - 0'			17						X									
1257	3/25/2025	S	1	FS113 - 0'			18						X									
1259	3/25/2025	S	1	FS193 - 0'			19						X									
							20															
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																						
Sampled by: <u>Higinio Gonzalez, Abou Bakar Kone</u>																						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>Y/N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other													Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



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Envirotech Analytical Laboratory

Printed: 3/27/2025 8:15:31AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	03/27/25 07:30	Work Order ID:	E503224
Phone:	(972) 371-5200	Date Logged In:	03/26/25 15:40	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	04/02/25 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/Resolution

Project Big Bucks Fed Com 501H has been separated into multiple WOs due to sample volume, WOs are E503223 and E503224.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

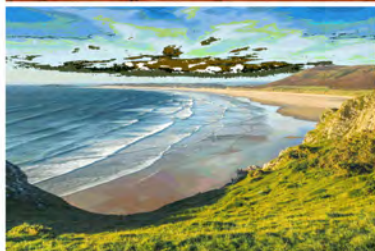
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E503236

Job Number: 23003-0002

Received: 3/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/3/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/3/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E503236
Date Received: 3/28/2025 4:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2025 4:00:00AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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
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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:

Big Bucks Fed Com 501H

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

04/03/25 12:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS142-0'	E503236-01A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS143-0'	E503236-02A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS145-0'	E503236-03A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS146-0'	E503236-04A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS147-0'	E503236-05A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS148-0'	E503236-06A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS149-0'	E503236-07A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS150-0'	E503236-08A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS151-0'	E503236-09A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS152-0'	E503236-10A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS153-0'	E503236-11A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS154-0'	E503236-12A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS157-0'	E503236-13A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS158-0'	E503236-14A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS161-0'	E503236-15A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS163-0'	E503236-16A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS164-0'	E503236-17A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS165-0'	E503236-18A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS166-0'	E503236-19A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS168-0'	E503236-20A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS142-0'

E503236-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/28/25	03/28/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	03/28/25	03/28/25	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	03/28/25	03/28/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	03/28/25	03/28/25	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	624	50.0	2	03/28/25	03/29/25	
Oil Range Organics (C28-C36)	638	100	2	03/28/25	03/29/25	
<i>Surrogate: n-Nonane</i>		82.8 %	61-141	03/28/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	4150	40.0	2	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS143-0'

E503236-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		104 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		108 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		104 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		108 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	336	25.0	1	03/28/25	03/29/25	
Oil Range Organics (C28-C36)	249	50.0	1	03/28/25	03/29/25	
Surrogate: n-Nonane		92.8 %	61-141	03/28/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	2320	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS145-0'

E503236-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	92.4	25.0	1	03/28/25	04/01/25	
Oil Range Organics (C28-C36)	101	50.0	1	03/28/25	04/01/25	
Surrogate: n-Nonane		94.0 %	61-141	03/28/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	4670	40.0	2	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS146-0'

E503236-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		104 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		107 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		104 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		107 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	71.2	25.0	1	03/28/25	04/01/25	
Oil Range Organics (C28-C36)	91.7	50.0	1	03/28/25	04/01/25	
Surrogate: n-Nonane		91.5 %	61-141	03/28/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	3840	40.0	2	03/28/25	03/28/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 12:03:17PM
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FS147-0'

E503236-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		107 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		107 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	156	25.0	1	03/28/25	03/29/25	
Oil Range Organics (C28-C36)	108	50.0	1	03/28/25	03/29/25	
Surrogate: n-Nonane		81.3 %	61-141	03/28/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	3130	40.0	2	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS148-0'

E503236-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		105 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		107 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		105 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		107 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	126	25.0	1	03/28/25	04/01/25	
Oil Range Organics (C28-C36)	128	50.0	1	03/28/25	04/01/25	
Surrogate: n-Nonane		91.1 %	61-141	03/28/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	3430	40.0	2	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS149-0'

E503236-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		104 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		104 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	364	25.0	1	03/28/25	03/29/25	
Oil Range Organics (C28-C36)	310	50.0	1	03/28/25	03/29/25	
Surrogate: n-Nonane		92.9 %	61-141	03/28/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	8000	100	5	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS150-0'

E503236-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	47.4	25.0	1	03/28/25	04/01/25	
Oil Range Organics (C28-C36)	73.0	50.0	1	03/28/25	04/01/25	
Surrogate: n-Nonane		85.8 %	61-141	03/28/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	3390	40.0	2	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS151-0'

E503236-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		108 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		108 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	34.0	25.0	1	03/28/25	03/29/25	
Oil Range Organics (C28-C36)	60.4	50.0	1	03/28/25	03/29/25	
Surrogate: n-Nonane		93.2 %	61-141	03/28/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	551	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS152-0'

E503236-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		108 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		108 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	313	25.0	1	03/28/25	03/29/25	
Oil Range Organics (C28-C36)	173	50.0	1	03/28/25	03/29/25	
Surrogate: n-Nonane		92.6 %	61-141	03/28/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	3870	40.0	2	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS153-0'

E503236-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		103 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		107 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		103 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		107 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	466	25.0	1	03/28/25	03/29/25	
Oil Range Organics (C28-C36)	265	50.0	1	03/28/25	03/29/25	
Surrogate: n-Nonane		93.4 %	61-141	03/28/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	880	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS154-0'

E503236-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	104	25.0	1	03/28/25	04/02/25	
Oil Range Organics (C28-C36)	95.6	50.0	1	03/28/25	04/02/25	
Surrogate: n-Nonane		93.6 %	61-141	03/28/25	04/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	2330	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS157-0'

E503236-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		103 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		103 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	317	25.0	1	03/28/25	03/29/25	
Oil Range Organics (C28-C36)	248	50.0	1	03/28/25	03/29/25	
Surrogate: n-Nonane		93.3 %	61-141	03/28/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	5430	40.0	2	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS158-0'

E503236-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	506	25.0	1	03/28/25	03/29/25	
Oil Range Organics (C28-C36)	352	50.0	1	03/28/25	03/29/25	
Surrogate: n-Nonane		93.9 %	61-141	03/28/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	1830	40.0	2	03/28/25	03/28/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 12:03:17PM
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FS161-0'

E503236-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	381	25.0	1	03/28/25	04/02/25	
Oil Range Organics (C28-C36)	266	50.0	1	03/28/25	04/02/25	
Surrogate: n-Nonane		91.4 %	61-141	03/28/25	04/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	1680	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS163-0'

E503236-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	821	25.0	1	03/28/25	03/29/25	
Oil Range Organics (C28-C36)	472	50.0	1	03/28/25	03/29/25	
Surrogate: n-Nonane		93.5 %	61-141	03/28/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	415	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS164-0'

E503236-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		108 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		108 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	473	25.0	1	03/28/25	04/02/25	
Oil Range Organics (C28-C36)	418	50.0	1	03/28/25	04/02/25	
Surrogate: n-Nonane		90.3 %	61-141	03/28/25	04/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	568	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS165-0'

E503236-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		101 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		101 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	420	25.0	1	03/28/25	04/02/25	
Oil Range Organics (C28-C36)	344	50.0	1	03/28/25	04/02/25	
Surrogate: n-Nonane		92.8 %	61-141	03/28/25	04/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	3250	40.0	2	03/28/25	03/28/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 12:03:17PM
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FS166-0'

E503236-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		101 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		101 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		106 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	502	25.0	1	03/28/25	03/29/25	
Oil Range Organics (C28-C36)	314	50.0	1	03/28/25	03/29/25	
Surrogate: n-Nonane		94.5 %	61-141	03/28/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	642	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 12:03:17PM

FS168-0'

E503236-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Benzene	ND	0.0250	1	03/28/25	03/28/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/28/25	
Toluene	ND	0.0250	1	03/28/25	03/28/25	
o-Xylene	ND	0.0250	1	03/28/25	03/28/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/28/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		104 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		107 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513091
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/28/25	
Surrogate: Bromofluorobenzene		104 %	70-130	03/28/25	03/28/25	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	03/28/25	03/28/25	
Surrogate: Toluene-d8		107 %	70-130	03/28/25	03/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513093
Diesel Range Organics (C10-C28)	315	25.0	1	03/28/25	04/02/25	
Oil Range Organics (C28-C36)	226	50.0	1	03/28/25	04/02/25	
Surrogate: n-Nonane		96.5 %	61-141	03/28/25	04/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513094
Chloride	2670	40.0	2	03/28/25	03/28/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 12:03:17PM

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 (2513091-BLK1)

Prepared: 03/28/25 Analyzed: 03/28/25

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	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2513091-BS1)

Prepared: 03/28/25 Analyzed: 03/28/25

Benzene	2.08	0.0250	2.50		83.1	70-130			
Ethylbenzene	2.16	0.0250	2.50		86.5	70-130			
Toluene	2.23	0.0250	2.50		89.3	70-130			
o-Xylene	2.27	0.0250	2.50		90.9	70-130			
p,m-Xylene	4.70	0.0500	5.00		93.9	70-130			
Total Xylenes	6.97	0.0250	7.50		92.9	70-130			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			

Matrix Spike (2513091-MS1)

Source: E503236-03

Prepared: 03/28/25 Analyzed: 03/28/25

Benzene	2.37	0.0250	2.50	ND	95.0	48-131			
Ethylbenzene	2.48	0.0250	2.50	ND	99.0	45-135			
Toluene	2.55	0.0250	2.50	ND	102	48-130			
o-Xylene	2.55	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.32	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.88	0.0250	7.50	ND	105	43-135			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike Dup (2513091-MSD1)

Source: E503236-03

Prepared: 03/28/25 Analyzed: 03/28/25

Benzene	2.42	0.0250	2.50	ND	96.9	48-131	2.04	23	
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135	3.14	27	
Toluene	2.64	0.0250	2.50	ND	106	48-130	3.52	24	
o-Xylene	2.65	0.0250	2.50	ND	106	43-135	3.54	27	
p,m-Xylene	5.54	0.0500	5.00	ND	111	43-135	4.00	27	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 12:03:17PM
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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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2513091-BLK1)

Prepared: 03/28/25 Analyzed: 03/28/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2513091-BS2)

Prepared: 03/28/25 Analyzed: 03/28/25

Gasoline Range Organics (C6-C10)	55.1	20.0	50.0		110	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

Matrix Spike (2513091-MS2)

Source: E503236-03

Prepared: 03/28/25 Analyzed: 03/28/25

Gasoline Range Organics (C6-C10)	57.3	20.0	50.0	ND	115	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

Matrix Spike Dup (2513091-MSD2)

Source: E503236-03

Prepared: 03/28/25 Analyzed: 03/28/25

Gasoline Range Organics (C6-C10)	55.4	20.0	50.0	ND	111	70-130	3.25	20	
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 12:03:17PM

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 (2513093-BLK1)					Prepared: 03/28/25 Analyzed: 03/29/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.9		50.0		91.9	61-141			

LCS (2513093-BS1)					Prepared: 03/28/25 Analyzed: 03/29/25				
Diesel Range Organics (C10-C28)	233	25.0	250		93.0	66-144			
Surrogate: n-Nonane	47.5		50.0		94.9	61-141			

Matrix Spike (2513093-MS1)					Source: E503236-02		Prepared: 03/28/25 Analyzed: 03/29/25		
Diesel Range Organics (C10-C28)	575	25.0	250	336	95.6	56-156			
Surrogate: n-Nonane	47.6		50.0		95.2	61-141			

Matrix Spike Dup (2513093-MSD1)					Source: E503236-02		Prepared: 03/28/25 Analyzed: 03/29/25		
Diesel Range Organics (C10-C28)	573	25.0	250	336	94.9	56-156	0.321	20	
Surrogate: n-Nonane	47.2		50.0		94.5	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 12:03:17PM
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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 (2513094-BLK1)					Prepared: 03/28/25 Analyzed: 03/28/25				
Chloride	ND	20.0							
LCS (2513094-BS1)					Prepared: 03/28/25 Analyzed: 03/28/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2513094-MS1)					Source: E503236-06		Prepared: 03/28/25 Analyzed: 03/28/25		
Chloride	3800	40.0	250	3430	149	80-120			M4
Matrix Spike Dup (2513094-MSD1)					Source: E503236-06		Prepared: 03/28/25 Analyzed: 03/28/25		
Chloride	3550	40.0	250	3430	48.4	80-120	6.81	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/03/25 12:03

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

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

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



Chain of Custody

Page 1 of 5

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: Big Bucks FED COM 501H				Address: 3122 National Parks Hwy		E 503236		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
0900	3/26/2025	S	1	FS142 - 0'		1						X					
0856	3/26/2025	S	1	FS143 - 0'		2						X					
0903	3/26/2025	S	1	FS145 - 0'		3						X					
1012	3/26/2025	S	1	FS146 - 0'		4						X					
0906	3/26/2025	S	1	FS147 - 0'		5						X					
1006	3/26/2025	S	1	FS148 - 0'		6						X					
8848	3/26/2025	S	1	FS149 - 0'		7						X					
0845	3/26/2025	S	1	FS150 - 0'		8						X					
0842	3/26/2025	S	1	FS151 - 0'		9						X					
0909	3/26/2025	S	1	FS152 - 0'		10						X					
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Higinio Gonzalez, Oluwale Aderinto																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Chain of Custody

Page 2 of 5

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: Big Bucks FED COM 501H				Address: 3122 National Parks Hwy		E503236		23003000				X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Remarks			
1004	3/26/2025	S	1	FS 153 - 0'		11						X						
0911	3/26/2025	S	1	FS 154 - 0'		12						X						
1020	3/26/2025	S	1	FS 157 - 0'		13						X						
1024	3/26/2025	S	1	FS 158 - 0'		14						X						
1041	3/26/2025	S	1	FS 161 - 0'		15						X						
1027	3/26/2025	S	1	FS 163 - 0'		16						X						
1029	3/26/2025	S	1	FS 164 - 0'		17						X						
1032	3/26/2025	S	1	FS 165 - 0'		18						X						
1038	3/26/2025	S	1	FS 166 - 0'		19						X						
1036	3/26/2025	S	1	FS 168 - 0'		20						X						
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Higinio Gonzalez, Oluwale Aderinto																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



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Envirotech Analytical Laboratory

Printed: 3/28/2025 8:39:31AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	03/28/25 04:00	Work Order ID:	E503236
Phone:	(972) 371-5200	Date Logged In:	03/27/25 14:00	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	04/03/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Big Bucks Fed Com 501H has been separated into 2 reports due to sample volume. WO are E503236 & E503237.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E503237

Job Number: 23003-0002

Received: 3/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/3/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/3/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E503237
Date Received: 3/28/2025 4:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/28/2025 4:00:00AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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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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:

Big Bucks Fed Com 501H

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

04/03/25 11:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS160-0'	E503237-01A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS162-0'	E503237-02A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS167-0'	E503237-03A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS185-0'	E503237-04A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS187-0'	E503237-05A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS188-0'	E503237-06A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS189-0'	E503237-07A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS190-0'	E503237-08A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS192-0'	E503237-09A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS195-0'	E503237-10A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS196-0'	E503237-11A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS197-0'	E503237-12A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS198-0'	E503237-13A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS199-0'	E503237-14A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS200-0'	E503237-15A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS205-0'	E503237-16A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS216-0'	E503237-17A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS218-0'	E503237-18A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS223-0'	E503237-19A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS224-0'	E503237-20A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS225-0'	E503237-21A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS226-0'	E503237-22A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.
FS227-0'	E503237-23A	Soil	03/26/25	03/28/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS160-0'

E503237-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %	70-130	03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2513098	
Diesel Range Organics (C10-C28)	182	25.0	1	03/28/25	04/01/25	
Oil Range Organics (C28-C36)	92.5	50.0	1	03/28/25	04/01/25	
<i>Surrogate: n-Nonane</i>		92.7 %	61-141	03/28/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2513097	
Chloride	521	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS162-0'

E503237-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.1 %	70-130	03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.6 %	70-130	03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2513098	
Diesel Range Organics (C10-C28)	131	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	148	50.0	1	03/28/25	03/28/25	
<i>Surrogate: n-Nonane</i>		88.3 %	61-141	03/28/25	03/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2513097	
Chloride	409	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS167-0'

E503237-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.7 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	98.8 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2513098	
Diesel Range Organics (C10-C28)	287	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	219	50.0	1	03/28/25	03/28/25	
<i>Surrogate: n-Nonane</i>	96.7 %	61-141		03/28/25	03/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2513097	
Chloride	654	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS185-0'

E503237-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Benzene	ND	0.0250	1	03/28/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/29/25	
Toluene	ND	0.0250	1	03/28/25	03/29/25	
o-Xylene	ND	0.0250	1	03/28/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		03/28/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		03/28/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513098
Diesel Range Organics (C10-C28)	59.3	25.0	1	03/28/25	04/01/25	
Oil Range Organics (C28-C36)	83.4	50.0	1	03/28/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	94.0 %	61-141		03/28/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513097
Chloride	343	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS187-0'

E503237-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.4 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513098
Diesel Range Organics (C10-C28)	171	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	110	50.0	1	03/28/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	93.2 %	61-141		03/28/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513097
Chloride	1510	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS188-0'

E503237-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513098
Diesel Range Organics (C10-C28)	216	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	133	50.0	1	03/28/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	83.5 %	61-141		03/28/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513097
Chloride	792	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS189-0'

E503237-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.9 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.8 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2513098	
Diesel Range Organics (C10-C28)	75.5	25.0	1	03/28/25	04/01/25	
Oil Range Organics (C28-C36)	97.8	50.0	1	03/28/25	04/01/25	
<i>Surrogate: n-Nonane</i>	90.0 %	61-141		03/28/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2513097	
Chloride	642	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS190-0'

E503237-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.0 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513098
Diesel Range Organics (C10-C28)	198	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	268	50.0	1	03/28/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	84.2 %	61-141		03/28/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513097
Chloride	659	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS192-0'

E503237-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.9 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513098
Diesel Range Organics (C10-C28)	50.9	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	88.1 %	61-141		03/28/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513097
Chloride	459	20.0	1	03/28/25	03/28/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 11:58:36AM
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FS195-0'

E503237-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
Surrogate: 4-Bromochlorobenzene-PID	98.9 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.3 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2513098	
Diesel Range Organics (C10-C28)	45.1	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	52.1	50.0	1	03/28/25	03/28/25	
Surrogate: n-Nonane	93.0 %	61-141		03/28/25	03/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2513097	
Chloride	531	20.0	1	03/28/25	03/28/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 11:58:36AM
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FS196-0'

E503237-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
Surrogate: 4-Bromochlorobenzene-PID	99.8 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.4 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2513098	
Diesel Range Organics (C10-C28)	72.3	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	82.9	50.0	1	03/28/25	03/28/25	
Surrogate: n-Nonane	93.3 %	61-141		03/28/25	03/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2513097	
Chloride	2190	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS197-0'

E503237-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.3 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	98.0 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2513098	
Diesel Range Organics (C10-C28)	431	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	173	50.0	1	03/28/25	03/28/25	
<i>Surrogate: n-Nonane</i>	95.0 %	61-141		03/28/25	03/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2513097	
Chloride	3840	40.0	2	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS198-0'

E503237-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.5 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513098
Diesel Range Organics (C10-C28)	252	25.0	1	03/28/25	04/01/25	
Oil Range Organics (C28-C36)	206	50.0	1	03/28/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	83.0 %	61-141		03/28/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513097
Chloride	1200	20.0	1	03/28/25	03/28/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 11:58:36AM
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FS199-0'

E503237-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.7 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2513098	
Diesel Range Organics (C10-C28)	482	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	330	50.0	1	03/28/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	93.4 %	61-141		03/28/25	03/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2513097	
Chloride	1100	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS200-0'

E503237-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513098
Diesel Range Organics (C10-C28)	611	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	351	50.0	1	03/28/25	03/28/25	
<i>Surrogate: n-Nonane</i>						
	86.8 %	61-141		03/28/25	03/28/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513097
Chloride	897	20.0	1	03/28/25	03/28/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 11:58:36AM
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FS205-0'

E503237-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.4 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2513098	
Diesel Range Organics (C10-C28)	754	25.0	1	03/28/25	03/28/25	
Oil Range Organics (C28-C36)	427	50.0	1	03/28/25	03/28/25	
Surrogate: n-Nonane	94.2 %	61-141		03/28/25	03/28/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2513097	
Chloride	726	20.0	1	03/28/25	03/28/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 11:58:36AM
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FS216-0'

E503237-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
Surrogate: 4-Bromochlorobenzene-PID	97.7 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2513098	
Diesel Range Organics (C10-C28)	1010	25.0	1	03/28/25	03/29/25	
Oil Range Organics (C28-C36)	419	50.0	1	03/28/25	03/29/25	
Surrogate: n-Nonane	91.0 %	61-141		03/28/25	03/29/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2513097	
Chloride	924	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS218-0'

E503237-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.9 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513098
Diesel Range Organics (C10-C28)	420	25.0	1	03/28/25	04/01/25	
Oil Range Organics (C28-C36)	243	50.0	1	03/28/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	91.5 %	61-141		03/28/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513097
Chloride	261	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS223-0'

E503237-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513096
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2513098
Diesel Range Organics (C10-C28)	533	25.0	1	03/28/25	04/01/25	
Oil Range Organics (C28-C36)	361	50.0	1	03/28/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	90.2 %	61-141		03/28/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2513097
Chloride	1790	20.0	1	03/28/25	03/28/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 11:58:36AM
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FS224-0'

E503237-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Benzene	ND	0.0250	1	03/28/25	03/30/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/30/25	
Toluene	ND	0.0250	1	03/28/25	03/30/25	
o-Xylene	ND	0.0250	1	03/28/25	03/30/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/30/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/30/25	
Surrogate: 4-Bromochlorobenzene-PID	97.7 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2513096	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	101 %	70-130		03/28/25	03/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2513098	
Diesel Range Organics (C10-C28)	349	25.0	1	03/28/25	04/01/25	
Oil Range Organics (C28-C36)	219	50.0	1	03/28/25	04/01/25	
Surrogate: n-Nonane	93.4 %	61-141		03/28/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2513097	
Chloride	429	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS225-0'

E503237-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513095
Benzene	ND	0.0250	1	03/28/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/29/25	
Toluene	ND	0.0250	1	03/28/25	03/29/25	
o-Xylene	ND	0.0250	1	03/28/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		03/28/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513095
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		03/28/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2513106
Diesel Range Organics (C10-C28)	34.8	25.0	1	03/29/25	03/29/25	
Oil Range Organics (C28-C36)	67.7	50.0	1	03/29/25	03/29/25	
<i>Surrogate: n-Nonane</i>						
	104 %	61-141		03/29/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513101
Chloride	175	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS226-0'

E503237-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513095
Benzene	ND	0.0250	1	03/28/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/29/25	
Toluene	ND	0.0250	1	03/28/25	03/29/25	
o-Xylene	ND	0.0250	1	03/28/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.7 %	70-130	03/28/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513095
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	03/28/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2513106
Diesel Range Organics (C10-C28)	61.7	25.0	1	03/29/25	03/29/25	
Oil Range Organics (C28-C36)	116	50.0	1	03/29/25	03/29/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	03/29/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513101
Chloride	422	20.0	1	03/28/25	03/28/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/3/2025 11:58:36AM

FS227-0'

E503237-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513095
Benzene	ND	0.0250	1	03/28/25	03/29/25	
Ethylbenzene	ND	0.0250	1	03/28/25	03/29/25	
Toluene	ND	0.0250	1	03/28/25	03/29/25	
o-Xylene	ND	0.0250	1	03/28/25	03/29/25	
p,m-Xylene	ND	0.0500	1	03/28/25	03/29/25	
Total Xylenes	ND	0.0250	1	03/28/25	03/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		03/28/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2513095
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/28/25	03/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		03/28/25	03/29/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2513106
Diesel Range Organics (C10-C28)	31.0	25.0	1	03/29/25	03/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/29/25	03/29/25	
<i>Surrogate: n-Nonane</i>						
	104 %	61-141		03/29/25	03/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2513101
Chloride	610	20.0	1	03/28/25	03/28/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 11:58:36AM

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 (2513095-BLK1) Prepared: 03/28/25 Analyzed: 03/28/25

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	7.69		8.00		96.2	70-130			

LCS (2513095-BS1) Prepared: 03/28/25 Analyzed: 03/28/25

Benzene	4.33	0.0250	5.00		86.6	70-130			
Ethylbenzene	4.17	0.0250	5.00		83.3	70-130			
Toluene	4.28	0.0250	5.00		85.6	70-130			
o-Xylene	4.19	0.0250	5.00		83.7	70-130			
p,m-Xylene	8.36	0.0500	10.0		83.6	70-130			
Total Xylenes	12.5	0.0250	15.0		83.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			

Matrix Spike (2513095-MS1) Source: E503235-04 Prepared: 03/28/25 Analyzed: 03/28/25

Benzene	4.44	0.0250	5.00	ND	88.8	70-130			
Ethylbenzene	4.27	0.0250	5.00	ND	85.4	70-130			
Toluene	4.38	0.0250	5.00	ND	87.7	70-130			
o-Xylene	4.27	0.0250	5.00	ND	85.5	70-130			
p,m-Xylene	8.56	0.0500	10.0	ND	85.6	70-130			
Total Xylenes	12.8	0.0250	15.0	ND	85.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2513095-MSD1) Source: E503235-04 Prepared: 03/28/25 Analyzed: 03/28/25

Benzene	4.06	0.0250	5.00	ND	81.2	70-130	8.91	27	
Ethylbenzene	3.92	0.0250	5.00	ND	78.4	70-130	8.51	26	
Toluene	4.02	0.0250	5.00	ND	80.4	70-130	8.67	20	
o-Xylene	3.92	0.0250	5.00	ND	78.5	70-130	8.50	25	
p,m-Xylene	7.88	0.0500	10.0	ND	78.8	70-130	8.27	23	
Total Xylenes	11.8	0.0250	15.0	ND	78.7	70-130	8.35	26	
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 11:58:36AM

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 (2513096-BLK1)Prepared: 03/28/25 Analyzed: 03/29/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

LCS (2513096-BS1)Prepared: 03/28/25 Analyzed: 03/29/25

Benzene	4.09	0.0250	5.00		81.7	70-130			
Ethylbenzene	3.97	0.0250	5.00		79.5	70-130			
Toluene	4.06	0.0250	5.00		81.2	70-130			
o-Xylene	4.00	0.0250	5.00		80.0	70-130			
p,m-Xylene	8.02	0.0500	10.0		80.2	70-130			
Total Xylenes	12.0	0.0250	15.0		80.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.3	70-130			

Matrix Spike (2513096-MS1)Source: E503237-04Prepared: 03/28/25 Analyzed: 03/29/25

Benzene	4.07	0.0250	5.00	ND	81.4	70-130			
Ethylbenzene	3.96	0.0250	5.00	ND	79.2	70-130			
Toluene	4.04	0.0250	5.00	ND	80.8	70-130			
o-Xylene	3.96	0.0250	5.00	ND	79.1	70-130			
p,m-Xylene	7.96	0.0500	10.0	ND	79.6	70-130			
Total Xylenes	11.9	0.0250	15.0	ND	79.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike Dup (2513096-MSD1)Source: E503237-04Prepared: 03/28/25 Analyzed: 03/29/25

Benzene	4.38	0.0250	5.00	ND	87.7	70-130	7.44	27	
Ethylbenzene	4.26	0.0250	5.00	ND	85.2	70-130	7.33	26	
Toluene	4.35	0.0250	5.00	ND	87.0	70-130	7.29	20	
o-Xylene	4.24	0.0250	5.00	ND	84.9	70-130	7.06	25	
p,m-Xylene	8.55	0.0500	10.0	ND	85.5	70-130	7.15	23	
Total Xylenes	12.8	0.0250	15.0	ND	85.3	70-130	7.12	26	
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 11:58:36AM

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 (2513095-BLK1) Prepared: 03/28/25 Analyzed: 03/28/25

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

LCS (2513095-BS2) Prepared: 03/28/25 Analyzed: 03/28/25

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0		99.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.62		8.00		108	70-130			

Matrix Spike (2513095-MS2) Source: E503235-04 Prepared: 03/28/25 Analyzed: 03/28/25

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.44		8.00		106	70-130			

Matrix Spike Dup (2513095-MSD2) Source: E503235-04 Prepared: 03/28/25 Analyzed: 03/28/25

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	3.07	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 11:58:36AM

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 (2513096-BLK1) Prepared: 03/28/25 Analyzed: 03/29/25

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

LCS (2513096-BS2) Prepared: 03/28/25 Analyzed: 03/29/25

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0		95.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.26		8.00		103	70-130			

Matrix Spike (2513096-MS2) Source: E503237-04 Prepared: 03/28/25 Analyzed: 03/29/25

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.36		8.00		104	70-130			

Matrix Spike Dup (2513096-MSD2) Source: E503237-04 Prepared: 03/28/25 Analyzed: 03/29/25

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130	5.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.46		8.00		106	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 11:58:36AM

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 (2513098-BLK1)					Prepared: 03/28/25 Analyzed: 03/28/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.7		50.0		93.4	61-141			

LCS (2513098-BS1)					Prepared: 03/28/25 Analyzed: 03/28/25				
Diesel Range Organics (C10-C28)	236	25.0	250		94.5	66-144			
Surrogate: n-Nonane	45.3		50.0		90.5	61-141			

Matrix Spike (2513098-MS1)					Source: E503237-05		Prepared: 03/28/25 Analyzed: 03/28/25		
Diesel Range Organics (C10-C28)	329	25.0	250	171	63.3	56-156			
Surrogate: n-Nonane	47.2		50.0		94.5	61-141			

Matrix Spike Dup (2513098-MSD1)					Source: E503237-05		Prepared: 03/28/25 Analyzed: 03/28/25		
Diesel Range Organics (C10-C28)	362	25.0	250	171	76.6	56-156	9.66	20	
Surrogate: n-Nonane	47.8		50.0		95.5	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/3/2025 11:58:36AM

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 (2513106-BLK1)					Prepared: 03/29/25 Analyzed: 03/29/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.1		50.0		114	61-141			

LCS (2513106-BS1)					Prepared: 03/29/25 Analyzed: 03/29/25				
Diesel Range Organics (C10-C28)	260	25.0	250		104	66-144			
Surrogate: n-Nonane	48.3		50.0		96.5	61-141			

Matrix Spike (2513106-MS1)					Source: E503237-23		Prepared: 03/29/25 Analyzed: 03/29/25		
Diesel Range Organics (C10-C28)	291	25.0	250	31.0	104	56-156			
Surrogate: n-Nonane	49.8		50.0		99.6	61-141			

Matrix Spike Dup (2513106-MSD1)					Source: E503237-23		Prepared: 03/29/25 Analyzed: 03/29/25		
Diesel Range Organics (C10-C28)	290	25.0	250	31.0	104	56-156	0.549	20	
Surrogate: n-Nonane	50.0		50.0		100	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 11:58:36AM
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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 (2513097-BLK1)					Prepared: 03/28/25 Analyzed: 03/28/25				
Chloride	ND	20.0							
LCS (2513097-BS1)					Prepared: 03/28/25 Analyzed: 03/28/25				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2513097-MS1)					Source: E503237-07		Prepared: 03/28/25 Analyzed: 03/28/25		
Chloride	927	20.0	250	642	114	80-120			
Matrix Spike Dup (2513097-MSD1)					Source: E503237-07		Prepared: 03/28/25 Analyzed: 03/28/25		
Chloride	860	20.0	250	642	87.4	80-120	7.52	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/3/2025 11:58:36AM
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Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2513101-BLK1)					Prepared: 03/28/25 Analyzed: 03/28/25				
Chloride	ND	20.0							
LCS (2513101-BS1)					Prepared: 03/28/25 Analyzed: 03/28/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2513101-MS1)					Source: E503237-22		Prepared: 03/28/25 Analyzed: 03/28/25		
Chloride	673	20.0	250	422	101	80-120			
Matrix Spike Dup (2513101-MSD1)					Source: E503237-22		Prepared: 03/28/25 Analyzed: 03/28/25		
Chloride	681	20.0	250	422	104	80-120	1.13	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/03/25 11:58

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Page 3 of 5

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: Big Bucks FED COM 501H				Address: 3122 National Parks Hwy		E503237		23003-0007				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
1310	3/26/2025	S	1	FS160 - 0'		1						X					
1312	3/26/2025	S	1	FS162 - 0'		2						X					
1315	3/26/2025	S	1	FS167 - 0'		3						X					
1123	3/26/2025	S	1	FS185 - 0'		4						X					
1125	3/26/2025	S	1	FS187 - 0'		5						X					
1120	3/26/2025	S	1	FS188 - 0'		6						X					
1133	3/26/2025	S	1	FS189 - 0'		7						X					
1139	3/26/2025	S	1	FS190 - 0'		8						X					
1117	3/26/2025	S	1	FS192 - 0'		9						X					
0859	3/26/2025	S	1	FS195 - 0'		10						X					
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Higinio Gonzalez, Oluwale Aderinto																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



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Chain of Custody

Page 4 of 5

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: Big Bucks FED COM 501H				Address: 3122 National Parks Hwy		E503237		23003-0007				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
0813	3/26/2025	S	1	FS196 - 0'		11						X					
0810	3/26/2025	S	1	FS197 - 0'		12						X					
1344	3/26/2025	S	1	FS198 - 0'		13						X					
1340	3/26/2025	S	1	FS199 - 0'		14						X					
1331	3/26/2025	S	1	FS200 - 0'		15						X					
1326	3/26/2025	S	1	FS205 - 0'		16						X					
0757	3/26/2025	S	1	FS216 - 0'		17						X					
0752	3/26/2025	S	1	FS218 - 0'		18						X					
0955	3/26/2025	S	1	FS223 - 0'		19						X					
0749	3/26/2025	S	1	FS224 - 0'		20						X					
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Higinio Gonzalez, Oluwale Aderinto																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Chain of Custody

Client Information					
Client: Matador Project: Big Bucks FED COM 501H Project Manager: Ashley Gioveno 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# E503237		Job Number Z3003-0002			
1D	2D	3D	Std		
X			X		
Analysis and Method					
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.O	BGDOC - NM
TCEQ 100S-TX	RCRA 8 Metals				
EPA Program					
SDWA		CWA	RCRA		
Compliance		Y or N			
PWSID #					
Remarks					
Sample Information					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter Lab Number
0930	3/26/2025	S	1	FS 225 - O'	21
0920	3/26/2025	S	1	FS 226 - O'	22
1004	3/26/2025	S	1	FS 227 - O'	23
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.					
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days					
Relinquished by: (Signature)		Date	Time	Received by: (Signature) Date Time	
		3-27-25	1100	Michelle Gonzales 3-27-25 1100	
Relinquished by: (Signature)		Date	Time	Received by: (Signature) Date Time	
		3-27-25	1400	Inden H. 3-27-25 1630	
Relinquished by: (Signature)		Date	Time	Received by: (Signature) Date Time	
		3-27-25	2245	Kamryn R. Hill 3-28-25 0400	
Relinquished by: (Signature)		Date	Time	Received by: (Signature) Date Time	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.					



envirotech

Envirotech Analytical Laboratory

Printed: 3/28/2025 9:08:32AM

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:	03/28/25 04:00	Work Order ID:	E503237
Phone:	(972) 371-5200	Date Logged In:	03/27/25 14:03	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	04/03/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Big Bucks Fed Com 501H has been separated into 2 reports due to sample volume. WO are E503236 & E503237.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

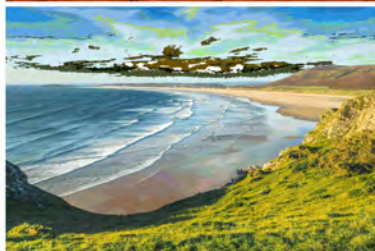
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E503252

Job Number: 23003-0002

Received: 3/31/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/4/25

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: 4/4/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E503252
Date Received: 3/31/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/31/2025 7:30:00AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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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Sample Summary

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
04/04/25 13:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-0'	E503252-01A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS02-0'	E503252-02A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS03-0'	E503252-03A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS04-0'	E503252-04A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS05-0'	E503252-05A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS06-0'	E503252-06A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS07-0'	E503252-07A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS08-0'	E503252-08A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS09-0'	E503252-09A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS10-0'	E503252-10A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS11-0'	E503252-11A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS12-0'	E503252-12A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS13-0'	E503252-13A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS14-0'	E503252-14A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS15-0'	E503252-15A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS16-0'	E503252-16A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS17-0'	E503252-17A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS18-0'	E503252-18A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS20-0'	E503252-19A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS22-0'	E503252-20A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS01-0'

E503252-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.9 %	70-130	03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.3 %	70-130	03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	30.0	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>		95.2 %	61-141	03/31/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	365	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS02-0'

E503252-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.2 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	90.7	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	224	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	97.3 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	444	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS03-0'

E503252-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	83.1 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	27.7	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	95.5 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	560	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS04-0'

E503252-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	82.4 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	63.1	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	208	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	93.9 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	610	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS05-0'

E503252-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.7 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	87.2 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	2690	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS06-0'

E503252-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.2 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	92.6 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	708	20.0	1	03/31/25	03/31/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/4/2025 1:16:12PM
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FS07-0'

E503252-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.7 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	44.5	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	93.6 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	1650	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS08-0'

E503252-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.7 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	95.3 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	2390	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS09-0'

E503252-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.1 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	33.2	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	52.9	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	96.9 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	1380	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS10-0'

E503252-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	82.5 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	33.2	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	50.9	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	97.2 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	6470	100	5	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS11-0'

E503252-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.8 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	95.5 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	938	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS12-0'

E503252-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.1 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	33.0	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	93.3 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	1760	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS13-0'

E503252-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514016
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.7 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514016
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2514011
Diesel Range Organics (C10-C28)	283	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	380	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	94.3 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2514010
Chloride	1920	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS14-0'

E503252-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514016
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.5 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514016
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.7 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2514011
Diesel Range Organics (C10-C28)	28.8	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	92.5 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2514010
Chloride	4270	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS15-0'

E503252-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.2 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	94.7 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	1080	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS16-0'

E503252-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514016
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.3 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514016
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2514011
Diesel Range Organics (C10-C28)	222	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	253	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	96.0 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2514010
Chloride	815	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS17-0'

E503252-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.4 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.5 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	189	25.0	1	03/31/25	04/03/25	
Oil Range Organics (C28-C36)	161	50.0	1	03/31/25	04/03/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		03/31/25	04/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	657	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS18-0'

E503252-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.6 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	88.9 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	4310	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:16:12PM

FS20-0'

E503252-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514016
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.5 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514016
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2514011
Diesel Range Organics (C10-C28)	34.6	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	51.0	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	89.9 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2514010
Chloride	2370	40.0	2	03/31/25	03/31/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/4/2025 1:16:12PM
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FS22-0'

E503252-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
Surrogate: 4-Bromochlorobenzene-PID	86.6 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2514016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.3 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2514011	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
Surrogate: n-Nonane	93.2 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2514010	
Chloride	1210	20.0	1	03/31/25	03/31/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:16:12PM

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 (2514016-BLK1)

Prepared: 03/31/25 Analyzed: 03/31/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.92		8.00		86.6	70-130			

LCS (2514016-BS1)

Prepared: 03/31/25 Analyzed: 03/31/25

Benzene	4.94	0.0250	5.00		98.8	70-130			
Ethylbenzene	4.85	0.0250	5.00		97.0	70-130			
Toluene	4.92	0.0250	5.00		98.5	70-130			
o-Xylene	4.87	0.0250	5.00		97.4	70-130			
p,m-Xylene	9.91	0.0500	10.0		99.1	70-130			
Total Xylenes	14.8	0.0250	15.0		98.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.5	70-130			

Matrix Spike (2514016-MS1)

Source: E503252-05

Prepared: 03/31/25 Analyzed: 03/31/25

Benzene	5.22	0.0250	5.00	ND	104	70-130			
Ethylbenzene	5.15	0.0250	5.00	ND	103	70-130			
Toluene	5.22	0.0250	5.00	ND	104	70-130			
o-Xylene	5.13	0.0250	5.00	ND	103	70-130			
p,m-Xylene	10.5	0.0500	10.0	ND	105	70-130			
Total Xylenes	15.6	0.0250	15.0	ND	104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.97		8.00		87.1	70-130			

Matrix Spike Dup (2514016-MSD1)

Source: E503252-05

Prepared: 03/31/25 Analyzed: 03/31/25

Benzene	5.38	0.0250	5.00	ND	108	70-130	3.03	27	
Ethylbenzene	5.26	0.0250	5.00	ND	105	70-130	2.02	26	
Toluene	5.34	0.0250	5.00	ND	107	70-130	2.24	20	
o-Xylene	5.23	0.0250	5.00	ND	105	70-130	1.94	25	
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130	2.24	23	
Total Xylenes	15.9	0.0250	15.0	ND	106	70-130	2.14	26	
Surrogate: 4-Bromochlorobenzene-PID	6.94		8.00		86.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:16:12PM

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 (2514016-BLK1) Prepared: 03/31/25 Analyzed: 03/31/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	70-130			

LCS (2514016-BS2) Prepared: 03/31/25 Analyzed: 03/31/25

Gasoline Range Organics (C6-C10)	42.5	20.0	50.0		85.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			

Matrix Spike (2514016-MS2) Source: E503252-05 Prepared: 03/31/25 Analyzed: 03/31/25

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			

Matrix Spike Dup (2514016-MSD2) Source: E503252-05 Prepared: 03/31/25 Analyzed: 03/31/25

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0	ND	87.8	70-130	4.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:16:12PM

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 (2514011-BLK1)					Prepared: 03/31/25 Analyzed: 04/01/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.5		50.0		95.0	61-141			

LCS (2514011-BS1)					Prepared: 03/31/25 Analyzed: 04/01/25				
Diesel Range Organics (C10-C28)	229	25.0	250		91.5	66-144			
Surrogate: n-Nonane	47.1		50.0		94.2	61-141			

Matrix Spike (2514011-MS1)					Source: E503252-03		Prepared: 03/31/25 Analyzed: 04/01/25		
Diesel Range Organics (C10-C28)	278	25.0	250	27.7	100	56-156			
Surrogate: n-Nonane	47.6		50.0		95.3	61-141			

Matrix Spike Dup (2514011-MSD1)					Source: E503252-03		Prepared: 03/31/25 Analyzed: 04/01/25		
Diesel Range Organics (C10-C28)	277	25.0	250	27.7	99.9	56-156	0.325	20	
Surrogate: n-Nonane	47.8		50.0		95.6	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/4/2025 1:16:12PM
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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 (2514010-BLK1)					Prepared: 03/31/25 Analyzed: 03/31/25				
Chloride	ND	20.0							
LCS (2514010-BS1)					Prepared: 03/31/25 Analyzed: 03/31/25				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2514010-MS1)					Source: E503252-02		Prepared: 03/31/25 Analyzed: 03/31/25		
Chloride	667	20.0	250	444	89.4	80-120			
Matrix Spike Dup (2514010-MSD1)					Source: E503252-02		Prepared: 03/31/25 Analyzed: 03/31/25		
Chloride	690	20.0	250	444	98.4	80-120	3.32	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/04/25 13:16

- 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: Big Bucks FED COM 501H				Address: 3122 National Parks Hwy				E503252		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																							
												Analysis and Method				EPA Program							
												DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
																				Compliance	Y	or	N
																				PWSID #			
																				Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number																
0813	3/27/2025	S	1	FS01 - 01			1								X								
0814	3/27/2025	S	1	02			2								X								
0816	3/27/2025	S	1	03			3								X								
0947	3/27/2025	S	1	04			4								X								
1039	3/27/2025	S	1	05			5								X								
0949	3/27/2025	S	1	06			6								X								
1041	3/27/2025	S	1	07			7								X								
0832	3/27/2025	S	1	08			8								X								
0826	3/27/2025	S	1	09			9								X								
0831	3/27/2025	S	1	10			10								X								
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: Higinio Gonzalez, Oluwale Aderinto, Jenna Hinkle																							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: (Y) / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4											
Jenna Hinkle		3/28/25		1022		Michelle Gonzalez		3-28-25		1022													
Michelle Gonzalez		3-28-25		1022		Marissa Gonzalez		3-28-25		1022													
Marissa Gonzalez		3-28-25		2100		Richard Gonzalez		3-28-25		2100													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time													
Richard Gonzalez		3-28-25		2300		Caitlynn		3-31-25		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.																							



envirotech

Chain of Custody

Page 2 of 25
Received by OCD: 5/27/2025 1:00:10 PM

Client Information				Invoice Information		Lab Use Only		TAT		State				
Client: Matador Project: Big Bucks FED COM 501H 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# E503252	Job Number 2303-002	1D X	2D X	3D X	Std X			
Analysis and Method										EPA Program				
DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Chloride 300.0 BGDOC - NM TCEQ 1005 - TX RCRA 8 Metals										SDWA CWA RCRA Compliance Y or N PWSID #				
Sample Information														
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	Remarks							
0951	3/27/2025	S	1	FS 11-0'		11								
1043	3/27/2025	S	1	12		12								
1001	3/27/2025	S	1	13		13								
1047	3/27/2025	S	1	14		14								
1207	3/27/2025	S	1	15		15								
1210	3/27/2025	S	1	16		16								
1213	3/27/2025	S	1	17		17								
1321	3/27/2025	S	1	18		18								
1323	3/27/2025	S	1	20		19								
1222	3/27/2025	S	1	22		20								
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com														
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.														
Sampled by: Higinio Gonzalez, Oluwale Aderinto, Jenna Hinkle														
Relinquished by: (Signature) Jenna Hinkle		Date 3/28/25	Time 1022	Received by: (Signature) Michelle Gonzales		Date 3-28-25	Time 1022	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4						
Relinquished by: (Signature) Michelle Gonzales		Date 3-28-25	Time 1022	Received by: (Signature) Marissa Gonzales		Date 3-28-25	Time 1022							
Relinquished by: (Signature) Marissa Gonzales		Date 3-28-25	Time 2100	Received by: (Signature) Richard Gonzalez		Date 3-28-25	Time 2100							
Relinquished by: (Signature) Richard Gonzalez		Date 3-28-25	Time 2300	Received by: (Signature) Caitlynn		Date 3-31-25	Time T30							
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: 3/31/2025 11:17:52AM

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:	03/31/25 07:30	Work Order ID:	E503252
Phone:	(972) 371-5200	Date Logged In:	03/31/25 07:57	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	04/04/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project big bucks has been separated into 2 reports due to sample volume. WO are E503252 & E503253.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E503253

Job Number: 23003-0002

Received: 3/31/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/4/25

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: 4/4/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E503253
Date Received: 3/31/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/31/2025 7:30:00AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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:

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Lynn Jarboe
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Office: 505-421-LABS(5227)
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ljjarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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FS50-0'	9
FS68-0'	10
FS92-0'	11
FS141-0'	12
FS178-0'	13
FS179-0'	14
FS19-0'	15
FS21-0'	16
FS114-0'	17
FS115-0'	18
FS116-0'	19
FS117-0'	20
FS123-0'	21
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 04/04/25 13:52
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS31-0'	E503253-01A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS36-0'	E503253-02A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS39-0'	E503253-03A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS50-0'	E503253-04A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS68-0'	E503253-05A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS92-0'	E503253-06A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS141-0'	E503253-07A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS178-0'	E503253-08A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS179-0'	E503253-09A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS19-0'	E503253-10A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS21-0'	E503253-11A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS114-0'	E503253-12A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS115-0'	E503253-13A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS116-0'	E503253-14A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS117-0'	E503253-15A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS123-0'	E503253-16A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS124-0'	E503253-17A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS126-0'	E503253-18A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS175-0'	E503253-19A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS176-0'	E503253-20A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS180-0'	E503253-21A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS181-0'	E503253-22A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS182-0'	E503253-23A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.
FS183-0'	E503253-24A	Soil	03/27/25	03/31/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS31-0'

E503253-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.6 %	70-130	03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.1 %	70-130	03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2514019	
Diesel Range Organics (C10-C28)	61.4	25.0	1	03/31/25	03/31/25	
Oil Range Organics (C28-C36)	102	50.0	1	03/31/25	03/31/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	03/31/25	03/31/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2514012	
Chloride	3160	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS36-0'

E503253-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2514019	
Diesel Range Organics (C10-C28)	122	25.0	1	03/31/25	03/31/25	
Oil Range Organics (C28-C36)	217	50.0	1	03/31/25	03/31/25	
<i>Surrogate: n-Nonane</i>						
	102 %	61-141		03/31/25	03/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2514012	
Chloride	2740	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS39-0'

E503253-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.3 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2514019
Diesel Range Organics (C10-C28)	78.5	25.0	1	03/31/25	03/31/25	
Oil Range Organics (C28-C36)	109	50.0	1	03/31/25	03/31/25	
<i>Surrogate: n-Nonane</i>						
	98.4 %	61-141		03/31/25	03/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2514012
Chloride	2320	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS50-0'

E503253-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.9 %	70-130		03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2514019	
Diesel Range Organics (C10-C28)	96.7	25.0	1	03/31/25	03/31/25	
Oil Range Organics (C28-C36)	77.4	50.0	1	03/31/25	03/31/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		03/31/25	03/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2514012	
Chloride	5790	100	5	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS68-0'

E503253-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Benzene	ND	0.0250	1	03/31/25	03/31/25	
Ethylbenzene	ND	0.0250	1	03/31/25	03/31/25	
Toluene	ND	0.0250	1	03/31/25	03/31/25	
o-Xylene	ND	0.0250	1	03/31/25	03/31/25	
p,m-Xylene	ND	0.0500	1	03/31/25	03/31/25	
Total Xylenes	ND	0.0250	1	03/31/25	03/31/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	03/31/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	03/31/25	03/31/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2514019	
Diesel Range Organics (C10-C28)	88.5	25.0	1	03/31/25	03/31/25	
Oil Range Organics (C28-C36)	128	50.0	1	03/31/25	03/31/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	03/31/25	03/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2514012	
Chloride	4590	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS92-0'

E503253-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2514019
Diesel Range Organics (C10-C28)	399	25.0	1	03/31/25	03/31/25	
Oil Range Organics (C28-C36)	598	50.0	1	03/31/25	03/31/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		03/31/25	03/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2514012
Chloride	2330	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS141-0'

E503253-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2514019	
Diesel Range Organics (C10-C28)	123	25.0	1	03/31/25	03/31/25	
Oil Range Organics (C28-C36)	110	50.0	1	03/31/25	03/31/25	
<i>Surrogate: n-Nonane</i>						
	98.5 %	61-141		03/31/25	03/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2514012	
Chloride	2680	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS178-0'

E503253-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.9 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2514019
Diesel Range Organics (C10-C28)	415	25.0	1	03/31/25	03/31/25	
Oil Range Organics (C28-C36)	230	50.0	1	03/31/25	03/31/25	
<i>Surrogate: n-Nonane</i>						
	97.7 %	61-141		03/31/25	03/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2514012
Chloride	2010	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS179-0'

E503253-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	100 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2514019	
Diesel Range Organics (C10-C28)	168	25.0	1	03/31/25	03/31/25	
Oil Range Organics (C28-C36)	130	50.0	1	03/31/25	03/31/25	
<i>Surrogate: n-Nonane</i>						
	100 %	61-141		03/31/25	03/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2514012	
Chloride	2480	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS19-0'

E503253-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2514019
Diesel Range Organics (C10-C28)	26.3	25.0	1	03/31/25	03/31/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	03/31/25	
<i>Surrogate: n-Nonane</i>						
	99.5 %	61-141		03/31/25	03/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2514012
Chloride	4020	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS21-0'

E503253-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.8 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2514019	
Diesel Range Organics (C10-C28)	35.6	25.0	1	03/31/25	03/31/25	
Oil Range Organics (C28-C36)	61.8	50.0	1	03/31/25	03/31/25	
<i>Surrogate: n-Nonane</i>						
		97.7 %	61-141	03/31/25	03/31/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2514012	
Chloride	6730	100	5	03/31/25	03/31/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/4/2025 1:52:15PM
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FS114-0'

E503253-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
Surrogate: 4-Bromochlorobenzene-PID	97.8 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.8 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2514019	
Diesel Range Organics (C10-C28)	28.9	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
Surrogate: n-Nonane	97.3 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2514012	
Chloride	3190	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS115-0'

E503253-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.0 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2514019
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	97.3 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2514012
Chloride	928	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS116-0'

E503253-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.2 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2514019
Diesel Range Organics (C10-C28)	31.2	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2514012
Chloride	3830	40.0	2	03/31/25	03/31/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/4/2025 1:52:15PM
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FS117-0'

E503253-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2514019	
Diesel Range Organics (C10-C28)	41.8	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	65.8	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	97.9 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2514012	
Chloride	5080	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS123-0'

E503253-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.0 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2514019
Diesel Range Organics (C10-C28)	37.3	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
		100 %	61-141	03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2514012
Chloride	3380	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS124-0'

E503253-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.6 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2514019	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2514012	
Chloride	4960	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS126-0'

E503253-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2514019	
Diesel Range Organics (C10-C28)	50.7	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	89.5	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	102 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2514012	
Chloride	3910	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS175-0'

E503253-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2514019	
Diesel Range Organics (C10-C28)	560	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	309	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	104 %	61-141		03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2514012	
Chloride	2940	40.0	2	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS176-0'

E503253-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514015
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.7 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: HM		Batch: 2514019
Diesel Range Organics (C10-C28)	247	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	204	50.0	1	03/31/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2514012
Chloride	1400	20.0	1	03/31/25	03/31/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS180-0'

E503253-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514007
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		106 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		102 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		106 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2514021
Diesel Range Organics (C10-C28)	200	25.0	1	03/31/25	04/01/25	
Oil Range Organics (C28-C36)	132	50.0	1	03/31/25	04/01/25	
Surrogate: n-Nonane		90.6 %	61-141	03/31/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2514034
Chloride	1290	20.0	1	03/31/25	04/01/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS181-0'

E503253-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514007
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		104 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		108 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		104 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		108 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2514021
Diesel Range Organics (C10-C28)	200	25.0	1	03/31/25	04/03/25	
Oil Range Organics (C28-C36)	176	50.0	1	03/31/25	04/03/25	
Surrogate: n-Nonane		79.8 %	61-141	03/31/25	04/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2514034
Chloride	959	20.0	1	03/31/25	04/01/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS182-0'

E503253-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514007
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		103 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		106 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		103 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		106 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2514084
Diesel Range Organics (C10-C28)	1240	25.0	1	03/31/25	04/03/25	
Oil Range Organics (C28-C36)	670	50.0	1	03/31/25	04/03/25	
Surrogate: n-Nonane		94.2 %	61-141	03/31/25	04/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2514034
Chloride	1040	20.0	1	03/31/25	04/01/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/4/2025 1:52:15PM

FS183-0'

E503253-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514007
Benzene	ND	0.0250	1	03/31/25	04/01/25	
Ethylbenzene	ND	0.0250	1	03/31/25	04/01/25	
Toluene	ND	0.0250	1	03/31/25	04/01/25	
o-Xylene	ND	0.0250	1	03/31/25	04/01/25	
p,m-Xylene	ND	0.0500	1	03/31/25	04/01/25	
Total Xylenes	ND	0.0250	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		101 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		107 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514007
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/25	04/01/25	
Surrogate: Bromofluorobenzene		101 %	70-130	03/31/25	04/01/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	03/31/25	04/01/25	
Surrogate: Toluene-d8		107 %	70-130	03/31/25	04/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2514021
Diesel Range Organics (C10-C28)	588	25.0	1	03/31/25	04/03/25	
Oil Range Organics (C28-C36)	310	50.0	1	03/31/25	04/03/25	
Surrogate: n-Nonane		86.7 %	61-141	03/31/25	04/03/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2514034
Chloride	1090	20.0	1	03/31/25	04/01/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:52:15PM

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 (2514007-BLK1) Prepared: 03/31/25 Analyzed: 03/31/25

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	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2514007-BS1) Prepared: 03/31/25 Analyzed: 03/31/25

Benzene	2.24	0.0250	2.50		89.5	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.8	70-130			
Toluene	2.43	0.0250	2.50		97.1	70-130			
o-Xylene	2.46	0.0250	2.50		98.4	70-130			
p,m-Xylene	5.10	0.0500	5.00		102	70-130			
Total Xylenes	7.56	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.529		0.500		106	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike (2514007-MS1) Source: E503247-05 Prepared: 03/31/25 Analyzed: 03/31/25

Benzene	2.29	0.0250	2.50	ND	91.5	48-131			
Ethylbenzene	2.37	0.0250	2.50	ND	94.7	45-135			
Toluene	2.46	0.0250	2.50	ND	98.3	48-130			
o-Xylene	2.50	0.0250	2.50	ND	99.9	43-135			
p,m-Xylene	5.19	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.69	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

Matrix Spike Dup (2514007-MSD1) Source: E503247-05 Prepared: 03/31/25 Analyzed: 03/31/25

Benzene	2.14	0.0250	2.50	ND	85.7	48-131	6.53	23	
Ethylbenzene	2.24	0.0250	2.50	ND	89.7	45-135	5.40	27	
Toluene	2.33	0.0250	2.50	ND	93.0	48-130	5.58	24	
o-Xylene	2.37	0.0250	2.50	ND	94.7	43-135	5.39	27	
p,m-Xylene	4.94	0.0500	5.00	ND	98.9	43-135	4.93	27	
Total Xylenes	7.31	0.0250	7.50	ND	97.5	43-135	5.08	27	
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/4/2025 1:52:15PM
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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 (2514015-BLK1)

Prepared: 03/31/25 Analyzed: 03/31/25

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	7.93		8.00		99.1	70-130			

LCS (2514015-BS1)

Prepared: 03/31/25 Analyzed: 03/31/25

Benzene	3.92	0.0250	5.00		78.3	70-130			
Ethylbenzene	3.86	0.0250	5.00		77.2	70-130			
Toluene	3.92	0.0250	5.00		78.4	70-130			
o-Xylene	3.89	0.0250	5.00		77.8	70-130			
p,m-Xylene	7.77	0.0500	10.0		77.7	70-130			
Total Xylenes	11.7	0.0250	15.0		77.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			

Matrix Spike (2514015-MS1)

Source: E503253-01

Prepared: 03/31/25 Analyzed: 03/31/25

Benzene	4.47	0.0250	5.00	ND	89.4	70-130			
Ethylbenzene	4.38	0.0250	5.00	ND	87.5	70-130			
Toluene	4.45	0.0250	5.00	ND	89.1	70-130			
o-Xylene	4.37	0.0250	5.00	ND	87.4	70-130			
p,m-Xylene	8.78	0.0500	10.0	ND	87.8	70-130			
Total Xylenes	13.2	0.0250	15.0	ND	87.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

Matrix Spike Dup (2514015-MSD1)

Source: E503253-01

Prepared: 03/31/25 Analyzed: 03/31/25

Benzene	4.25	0.0250	5.00	ND	85.0	70-130	4.99	27	
Ethylbenzene	4.17	0.0250	5.00	ND	83.4	70-130	4.79	26	
Toluene	4.24	0.0250	5.00	ND	84.8	70-130	4.92	20	
o-Xylene	4.16	0.0250	5.00	ND	83.2	70-130	4.87	25	
p,m-Xylene	8.38	0.0500	10.0	ND	83.8	70-130	4.70	23	
Total Xylenes	12.5	0.0250	15.0	ND	83.6	70-130	4.75	26	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:52:15PM

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 (2514007-BLK1)

Prepared: 03/31/25 Analyzed: 03/31/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

LCS (2514007-BS2)

Prepared: 03/31/25 Analyzed: 03/31/25

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.3	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

Matrix Spike (2514007-MS2)

Source: E503247-05

Prepared: 03/31/25 Analyzed: 03/31/25

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

Matrix Spike Dup (2514007-MSD2)

Source: E503247-05

Prepared: 03/31/25 Analyzed: 03/31/25

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.5	70-130	1.19	20	
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:52:15PM

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 (2514015-BLK1) Prepared: 03/31/25 Analyzed: 03/31/25

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

LCS (2514015-BS2) Prepared: 03/31/25 Analyzed: 03/31/25

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.01		8.00		100	70-130			

Matrix Spike (2514015-MS2) Source: E503253-01 Prepared: 03/31/25 Analyzed: 03/31/25

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.10		8.00		101	70-130			

Matrix Spike Dup (2514015-MSD2) Source: E503253-01 Prepared: 03/31/25 Analyzed: 03/31/25

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130	2.79	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.29		8.00		104	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:52:15PM

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 (2514019-BLK1)					Prepared: 03/31/25 Analyzed: 03/31/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.1		50.0		92.3	61-141			

LCS (2514019-BS1)					Prepared: 03/31/25 Analyzed: 03/31/25				
Diesel Range Organics (C10-C28)	255	25.0	250		102	66-144			
Surrogate: n-Nonane	47.3		50.0		94.7	61-141			

Matrix Spike (2514019-MS1)					Source: E503253-03		Prepared: 03/31/25 Analyzed: 03/31/25		
Diesel Range Organics (C10-C28)	329	25.0	250	78.5	100	56-156			
Surrogate: n-Nonane	48.2		50.0		96.4	61-141			

Matrix Spike Dup (2514019-MSD1)					Source: E503253-03		Prepared: 03/31/25 Analyzed: 03/31/25		
Diesel Range Organics (C10-C28)	336	25.0	250	78.5	103	56-156	1.88	20	
Surrogate: n-Nonane	47.8		50.0		95.5	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:52:15PM

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 (2514021-BLK1)					Prepared: 03/31/25 Analyzed: 04/01/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.3		50.0		101	61-141			

LCS (2514021-BS1)					Prepared: 03/31/25 Analyzed: 04/01/25				
Diesel Range Organics (C10-C28)	236	25.0	250		94.6	66-144			
Surrogate: n-Nonane	46.5		50.0		93.1	61-141			

Matrix Spike (2514021-MS1)					Source: E503251-03		Prepared: 03/31/25 Analyzed: 04/01/25		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.4	56-156			
Surrogate: n-Nonane	46.5		50.0		93.0	61-141			

Matrix Spike Dup (2514021-MSD1)					Source: E503251-03		Prepared: 03/31/25 Analyzed: 04/01/25		
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.4	56-156	0.00621	20	
Surrogate: n-Nonane	47.2		50.0		94.3	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/4/2025 1:52:15PM

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 (2514084-BLK1)					Prepared: 04/03/25 Analyzed: 04/03/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.6		50.0		91.1	61-141			

LCS (2514084-BS1)					Prepared: 04/03/25 Analyzed: 04/03/25				
Diesel Range Organics (C10-C28)	237	25.0	250		94.7	66-144			
Surrogate: n-Nonane	47.9		50.0		95.7	61-141			

Matrix Spike (2514084-MS1)					Source: E504009-09		Prepared: 04/03/25 Analyzed: 04/03/25		
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.5	56-156			
Surrogate: n-Nonane	46.0		50.0		91.9	61-141			

Matrix Spike Dup (2514084-MSD1)					Source: E504009-09		Prepared: 04/03/25 Analyzed: 04/03/25		
Diesel Range Organics (C10-C28)	231	25.0	250	ND	92.4	56-156	2.29	20	
Surrogate: n-Nonane	46.8		50.0		93.6	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/4/2025 1:52:15PM
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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 (2514012-BLK1)				Prepared: 03/31/25 Analyzed: 03/31/25					
Chloride	ND	20.0							
LCS (2514012-BS1)				Prepared: 03/31/25 Analyzed: 03/31/25					
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2514012-MS1)				Source: E503253-03		Prepared: 03/31/25 Analyzed: 03/31/25			
Chloride	2770	20.0	250	2320	182	80-120			M4
Matrix Spike Dup (2514012-MSD1)				Source: E503253-03		Prepared: 03/31/25 Analyzed: 03/31/25			
Chloride	2590	20.0	250	2320	108	80-120	6.90	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/4/2025 1:52:15PM
---	--	-------------------------------------

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2514034-BLK1)					Prepared: 03/31/25 Analyzed: 04/01/25				
Chloride	ND	20.0							
LCS (2514034-BS1)					Prepared: 03/31/25 Analyzed: 04/01/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2514034-MS1)					Source: E503251-02		Prepared: 03/31/25 Analyzed: 04/01/25		
Chloride	510	40.0	250	249	104	80-120			
Matrix Spike Dup (2514034-MSD1)					Source: E503251-02		Prepared: 03/31/25 Analyzed: 04/01/25		
Chloride	501	40.0	250	249	101	80-120	1.83	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/04/25 13:52

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

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

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



Chain of Custody

Client Information				Invoice Number				Lab Use Only				TAT				State													
Client: Matador				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX										
Project: Big Bucks FED COM 501H				Address: 3122 National Parks Hwy				EP03253		2203 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																													
																Analysis and Method				EPA Program									
																DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals			SDWA	CWA	RCRA	
																										Compliance	Y	or	N
																										PWSID #			
																										Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number																							
0847	3/27/2025	S	1	FS31-0'		1									X														
0958	3/27/2025	S	1	36		2									X														
1005	3/27/2025	S	1	39		3									X														
1234	3/27/2025	S	1	50		4									X														
1406	3/27/2025	S	1	68		5									X														
1242	3/27/2025	S	1	92		6									X														
0841	3/27/2025	S	1	141		7									X														
0857	3/27/2025	S	1	178		8									X														
0844	3/27/2025	S	1	↓ 179 ↓		9									X														
						10																							
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																													
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																													
Sampled by: Higinio Gonzalez, Oluwale Aderinto, Jenna Hinkle																													
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: (Y) / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4																	
Jenna Hinkle		3/28/25		1022		Michelle Gonzales		3-28-25		1022																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																			
Michelle Gonzales		3-28-25		1022		Marissa Gonzales		3-28-25		1022																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																			
Marissa Gonzales		3-28-25		2100		Richard Gonzales		3-28-25		2100																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																			
Richard Gonzales		3-28-25		2200		Courtlynn		3-31-25		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.																													

Chain of Custody

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Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador				Company: Ensolum LLC		Lab WO# E503253		Job Number 2303-002		1D	2D	3D	Std	NM	CO	UT	TX	
Project: Big Bucks Fed Com 501H				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	
															Compliance	Y	or	N
															PWSID #			
															Remarks			
12:37	3/27/2025	S	1	FS19 - 0'	10	11						X						
12:35	3/27/2025	S	1	FS21 - 0'	11	12						X						
11:56	3/27/2025	S	1	FS114 - 0'	12	13						X						
11:53	3/27/2025	S	1	FS115 - 0'	13	14						X						
10:52	3/27/2025	S	1	FS116 - 0'	14	15						X						
11:58	3/27/2025	S	1	FS117 - 0'	15	16						X						
8:30	3/27/2025	S	1	FS123 - 0'	16	17						X						
9:16	3/27/2025	S	1	FS124 - 0'	17	18						X						
8:32	3/27/2025	S	1	FS126 - 0'	18	19						X						
11:12	3/27/2025	S	1	FS175 - 0'	19	20						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, oaderinto@ensolum.com, bmoir@ensolum.com I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Oluwale Aderinto, Hilaria Gonzalez, Jenna Hinkle</u>																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>										
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											
Jenna Hinkle		3/28/25	1022	Michelle Gonzalez		3-28-25	1022											
Michelle Gonzalez		3-28-25	1022	Marissa Gonzalez		3-28-25	1022											
Marissa Gonzalez		3-28-25	2100	Richard Gonzalez		3-28-25	2100											
Richard Gonzalez		3-28-25	2300	Caitlin Mann		3-31-25	130											
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

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Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador				Company: Ensolum LLC		Lab WO# E503253		Job Number 231031002		1D	2D	3D	Std	NM	CO	UT	TX	
Project: Big Bucks Fed Com 501H				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	
11:15	3/27/2025	S	1	FS176 - 0'	20	21						X						
8:54	3/27/2025	S	1	FS180 - 0'	21	22						X						
8:52	3/27/2025	S	1	FS181 - 0'	22	23						X						
8:46	3/27/2025	S	1	FS182 - 0'	23	24						X						
8:49	3/27/2025	S	1	FS183 - 0'	24	25						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, oaderinto@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: Oluwale Aderinto, Higinio Gonzalez, Jenna Hinkle																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4										
Jenna Hinkle		3/28/25	1022	Michelle Gonzales		3-28-25	1022											
Michelle Gonzales		3-28-25	1022	Mariassa Gonzales		3-28-25	1022											
Mariassa Gonzales		3-28-25	2100	Richard Gonzales		3-28-25	2100											
Richard Gonzales		3-28-25	2200	Caitlin Mann		3-31-25	730											
Sample Matrix: S - Solid, L - Liquid, SL - 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: 3/31/2025 11:19:08AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	03/31/25 07:30	Work Order ID:	E503253
Phone:	(972) 371-5200	Date Logged In:	03/31/25 08:01	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	04/04/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project big bucks has been separated into 2 reports due to sample volume. WO are E503252 & E503253.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E503257

Job Number: 23003-0002

Received: 4/1/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/7/25

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: 4/7/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E503257
Date Received: 4/1/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/1/2025 7:30:00AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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:

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Lynn Jarboe
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Office: 505-421-LABS(5227)
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ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 04/07/25 08:05
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS201-0'	E503257-01A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS202-0'	E503257-02A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS203-0'	E503257-03A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS204-0'	E503257-04A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS209-0'	E503257-05A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS210-0'	E503257-06A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS212-0'	E503257-07A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS213-0'	E503257-08A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS214-0'	E503257-09A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS215-0'	E503257-10A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS217-0'	E503257-11A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS219-0'	E503257-12A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS220-0'	E503257-13A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS221-0'	E503257-14A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.
FS222-0'	E503257-15A	Soil	03/28/25	04/01/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS201-0'

E503257-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2514044	
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.1 %	70-130	04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2514044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2514038	
Diesel Range Organics (C10-C28)	117	25.0	1	04/01/25	04/01/25	
Oil Range Organics (C28-C36)	66.4	50.0	1	04/01/25	04/01/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	04/01/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2514040	
Chloride	2130	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS202-0'

E503257-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2514038
Diesel Range Organics (C10-C28)	177	25.0	1	04/01/25	04/01/25	
Oil Range Organics (C28-C36)	137	50.0	1	04/01/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	106 %	61-141		04/01/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2514040
Chloride	867	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS203-0'

E503257-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2514038
Diesel Range Organics (C10-C28)	222	25.0	1	04/01/25	04/01/25	
Oil Range Organics (C28-C36)	124	50.0	1	04/01/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		04/01/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2514040
Chloride	2130	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS204-0'

E503257-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514044	
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2514038	
Diesel Range Organics (C10-C28)	568	25.0	1	04/01/25	04/01/25	
Oil Range Organics (C28-C36)	303	50.0	1	04/01/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	104 %	61-141		04/01/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2514040	
Chloride	2290	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS209-0'

E503257-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2514044	
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2514044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.2 %	70-130	04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2514038	
Diesel Range Organics (C10-C28)	98.8	25.0	1	04/01/25	04/01/25	
Oil Range Organics (C28-C36)	56.8	50.0	1	04/01/25	04/01/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	04/01/25	04/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2514040	
Chloride	1970	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS210-0'

E503257-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2514038
Diesel Range Organics (C10-C28)	213	25.0	1	04/01/25	04/01/25	
Oil Range Organics (C28-C36)	156	50.0	1	04/01/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		04/01/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2514040
Chloride	4960	40.0	2	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS212-0'

E503257-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2514038
Diesel Range Organics (C10-C28)	159	25.0	1	04/01/25	04/01/25	
Oil Range Organics (C28-C36)	85.3	50.0	1	04/01/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		04/01/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2514040
Chloride	757	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS213-0'

E503257-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.8 %	70-130	04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2514038
Diesel Range Organics (C10-C28)	114	25.0	1	04/01/25	04/01/25	
Oil Range Organics (C28-C36)	63.7	50.0	1	04/01/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	04/01/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2514040
Chloride	618	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS214-0'

E503257-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514044	
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.4 %	70-130	04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2514038	
Diesel Range Organics (C10-C28)	210	25.0	1	04/01/25	04/01/25	
Oil Range Organics (C28-C36)	111	50.0	1	04/01/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
		102 %	61-141	04/01/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2514040	
Chloride	665	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS215-0'

E503257-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.0 %	70-130	04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		103 %	70-130	04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2514038
Diesel Range Organics (C10-C28)	148	25.0	1	04/01/25	04/01/25	
Oil Range Organics (C28-C36)	57.4	50.0	1	04/01/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	04/01/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2514040
Chloride	172	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS217-0'

E503257-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.5 %	70-130	04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2514038
Diesel Range Organics (C10-C28)	48.0	25.0	1	04/01/25	04/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/25	04/01/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	04/01/25	04/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2514040
Chloride	214	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS219-0'

E503257-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2514038
Diesel Range Organics (C10-C28)	154	25.0	1	04/01/25	04/02/25	
Oil Range Organics (C28-C36)	87.6	50.0	1	04/01/25	04/02/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		04/01/25	04/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2514040
Chloride	561	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS220-0'

E503257-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514044	
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2514044	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.7 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2514038	
Diesel Range Organics (C10-C28)	219	25.0	1	04/01/25	04/02/25	
Oil Range Organics (C28-C36)	167	50.0	1	04/01/25	04/02/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		04/01/25	04/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2514040	
Chloride	1720	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS221-0'

E503257-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2514038
Diesel Range Organics (C10-C28)	293	25.0	1	04/01/25	04/02/25	
Oil Range Organics (C28-C36)	235	50.0	1	04/01/25	04/02/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		04/01/25	04/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2514040
Chloride	850	20.0	1	04/01/25	04/02/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/7/2025 8:05:31AM

FS222-0'

E503257-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Benzene	ND	0.0250	1	04/01/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/01/25	04/02/25	
Toluene	ND	0.0250	1	04/01/25	04/02/25	
o-Xylene	ND	0.0250	1	04/01/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/01/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/01/25	04/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2514044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/01/25	04/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.3 %	70-130		04/01/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2514038
Diesel Range Organics (C10-C28)	141	25.0	1	04/01/25	04/02/25	
Oil Range Organics (C28-C36)	144	50.0	1	04/01/25	04/02/25	
<i>Surrogate: n-Nonane</i>						
	107 %	61-141		04/01/25	04/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: AK		Batch: 2514040
Chloride	534	20.0	1	04/01/25	04/02/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/7/2025 8:05:31AM

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 (2514044-BLK1) Prepared: 04/01/25 Analyzed: 04/01/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.00		8.00		100	70-130			

LCS (2514044-BS1) Prepared: 04/01/25 Analyzed: 04/01/25

Benzene	4.39	0.0250	5.00		87.7	70-130			
Ethylbenzene	4.35	0.0250	5.00		87.1	70-130			
Toluene	4.41	0.0250	5.00		88.2	70-130			
o-Xylene	4.38	0.0250	5.00		87.7	70-130			
p,m-Xylene	8.76	0.0500	10.0		87.6	70-130			
Total Xylenes	13.1	0.0250	15.0		87.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.07		8.00		101	70-130			

LCS Dup (2514044-BSD1) Prepared: 04/01/25 Analyzed: 04/01/25

Benzene	4.39	0.0250	5.00		87.9	70-130	0.185	20	
Ethylbenzene	4.37	0.0250	5.00		87.4	70-130	0.396	20	
Toluene	4.42	0.0250	5.00		88.4	70-130	0.203	20	
o-Xylene	4.40	0.0250	5.00		88.1	70-130	0.439	20	
p,m-Xylene	8.79	0.0500	10.0		87.9	70-130	0.334	20	
Total Xylenes	13.2	0.0250	15.0		88.0	70-130	0.369	20	
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/7/2025 8:05:31AM

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 (2514044-BLK1) Prepared: 04/01/25 Analyzed: 04/01/25

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

LCS (2514044-BS2) Prepared: 04/01/25 Analyzed: 04/01/25

Gasoline Range Organics (C6-C10)	50.5	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

LCS Dup (2514044-BSD2) Prepared: 04/01/25 Analyzed: 04/01/25

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.5	70-130	8.80	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/7/2025 8:05:31AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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

Blank (2514038-BLK1)					Prepared: 04/01/25 Analyzed: 04/01/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.9		50.0		104	61-141			

LCS (2514038-BS1)					Prepared: 04/01/25 Analyzed: 04/01/25				
Diesel Range Organics (C10-C28)	263	25.0	250		105	66-144			
Surrogate: n-Nonane	53.5		50.0		107	61-141			

Matrix Spike (2514038-MS1)					Source: E503257-03		Prepared: 04/01/25 Analyzed: 04/01/25		
Diesel Range Organics (C10-C28)	504	25.0	250	222	113	56-156			
Surrogate: n-Nonane	53.1		50.0		106	61-141			

Matrix Spike Dup (2514038-MSD1)					Source: E503257-03		Prepared: 04/01/25 Analyzed: 04/01/25		
Diesel Range Organics (C10-C28)	475	25.0	250	222	101	56-156	5.84	20	
Surrogate: n-Nonane	51.7		50.0		103	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/7/2025 8:05:31AM
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Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2514040-BLK1)					Prepared: 04/01/25 Analyzed: 04/02/25				
Chloride	ND	20.0							
LCS (2514040-BS1)					Prepared: 04/01/25 Analyzed: 04/02/25				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2514040-MS1)					Source: E503257-02		Prepared: 04/01/25 Analyzed: 04/02/25		
Chloride	998	20.0	250	867	52.5	80-120			M4
Matrix Spike Dup (2514040-MSD1)					Source: E503257-02		Prepared: 04/01/25 Analyzed: 04/02/25		
Chloride	1100	20.0	250	867	93.4	80-120	9.76	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/07/25 08:05

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

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

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



Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State											
Client: Matador				Company: Ensolum LLC		Lab WO# E503257		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: Big Bucks FED COM 501H				Address: 3122 National Parks Hwy								<table border="1"> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>TX</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> </tr> </table>				NM	CO	UT	TX	X			
NM	CO	UT	TX																				
X																							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																			
Address: 3122 National Parks Hwy				Phone: 575-988-0055																			
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																			
Phone: 575-988-0055				Miscellaneous:																			
Email: agiovengo@ensolum.com																							
Sample Information										Analysis and Method				EPA Program									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA						
0917	3/28/2025	S	1	FS201-0'		1						X											
0914	3/28/2025	S	1	202		2						X											
0920	3/28/2025	S	1	203		3						X											
0910	3/28/2025	S	1	204		4						X											
0907	3/28/2025	S	1	209		5						X											
0925	3/28/2025	S	1	210		6						X											
0840	3/28/2025	S	1	212		7						X											
0843	3/28/2025	S	1	213		8						X											
0846	3/28/2025	S	1	214		9						X											
0837	3/28/2025	S	1	215		10						X											
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: Oluwale Aderinto, Jenna Hinkle																							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Sample Matrix: <u>Soil</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other _____															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA															
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



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Chain of Custody

Page 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador				Company: Ensolum LLC		Lab WO# E503257		Job Number 23003-0002		1D	2D	3D	Std	NM	CO	UT	TX
Project: Big Bucks FED COM 501H				Address: 3122 National Parks Hwy										X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
0833	3/28/2025	S	1	FS217-0'		11						X					
0850	3/28/2025	S	1	219		12						X					
0853	3/28/2025	S	1	220		13						X					
0856	3/28/2025	S	1	221		14						X					
0859	3/28/2025	S	1	222		15						X					
Additional Instructions: Please CC: agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Oluwale Aderinto, Jenna Hinkle																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: 0/ N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Jenna Hinkle		3/31/25	1100	Michelle Gonzales		3-31-25	1100										
Michelle Gonzales		3-31-25	1100	Marissa Gonzales		3-31-25	1100										
Marissa Gonzales		3-31-25	2130	Jenna Hinkle		3-31-25	2130										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Jenna Hinkle		3-31-25	20:00	Carth Ma		4-2-25	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.																	



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Envirotech Analytical Laboratory

Printed: 4/1/2025 8:25:25AM

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:	04/01/25 07:30	Work Order ID:	E503257
Phone:	(972) 371-5200	Date Logged In:	03/31/25 14:34	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	04/07/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

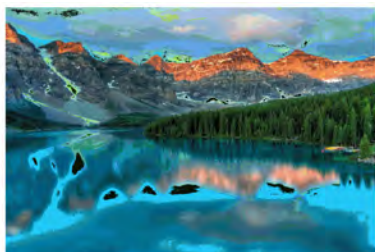
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E504097

Job Number: 23003-0002

Received: 4/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/18/25

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: 4/18/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E504097
Date Received: 4/14/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/14/2025 7:45:00AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
04/18/25 09:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS23-0	E504097-01A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS24-0	E504097-02A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS25-0	E504097-03A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS26-0	E504097-04A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS28-0	E504097-05A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS29-0	E504097-06A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS30-0	E504097-07A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS33-0	E504097-08A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS34-0	E504097-09A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS35-0	E504097-10A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS37-0	E504097-11A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS38-0	E504097-12A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS40-0	E504097-13A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS41-0	E504097-14A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS45-0	E504097-15A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS46-0	E504097-16A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS47-0	E504097-17A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS48-0	E504097-18A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS49-0	E504097-19A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS51-0	E504097-20A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS23-0

E504097-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/14/25	
Toluene	ND	0.0250	1	04/14/25	04/14/25	
o-Xylene	ND	0.0250	1	04/14/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	76.8	25.0	1	04/14/25	04/16/25	
Oil Range Organics (C28-C36)	60.2	50.0	1	04/14/25	04/16/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	04/14/25	04/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	2130	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS24-0

E504097-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/14/25	
Toluene	ND	0.0250	1	04/14/25	04/14/25	
o-Xylene	ND	0.0250	1	04/14/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	27.5	25.0	1	04/14/25	04/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/16/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	04/14/25	04/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	4410	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS25-0

E504097-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/14/25	
Toluene	ND	0.0250	1	04/14/25	04/14/25	
o-Xylene	ND	0.0250	1	04/14/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>96.4 %</i>	<i>70-130</i>		<i>04/14/25</i>	<i>04/14/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>94.3 %</i>	<i>70-130</i>		<i>04/14/25</i>	<i>04/14/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	51.5	25.0	1	04/14/25	04/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/16/25	
<i>Surrogate: n-Nonane</i>	<i>114 %</i>	<i>61-141</i>		<i>04/14/25</i>	<i>04/16/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	1460	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS26-0

E504097-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/14/25	
Toluene	ND	0.0250	1	04/14/25	04/14/25	
o-Xylene	ND	0.0250	1	04/14/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	42.6	25.0	1	04/14/25	04/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/16/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	04/14/25	04/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	1730	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS28-0

E504097-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/14/25	
Toluene	ND	0.0250	1	04/14/25	04/14/25	
o-Xylene	ND	0.0250	1	04/14/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	53.7	25.0	1	04/14/25	04/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/16/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	04/14/25	04/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	6690	100	5	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS29-0

E504097-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/14/25	
Toluene	ND	0.0250	1	04/14/25	04/14/25	
o-Xylene	ND	0.0250	1	04/14/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.4 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/25	04/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/16/25	
<i>Surrogate: n-Nonane</i>		117 %	61-141	04/14/25	04/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	3530	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS30-0

E504097-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/14/25	
Toluene	ND	0.0250	1	04/14/25	04/14/25	
o-Xylene	ND	0.0250	1	04/14/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.6 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	662	25.0	1	04/14/25	04/16/25	
Oil Range Organics (C28-C36)	235	50.0	1	04/14/25	04/16/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	04/14/25	04/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	2540	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS33-0

E504097-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/14/25	
Toluene	ND	0.0250	1	04/14/25	04/14/25	
o-Xylene	ND	0.0250	1	04/14/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.5 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516059	
Diesel Range Organics (C10-C28)	158	25.0	1	04/14/25	04/17/25	
Oil Range Organics (C28-C36)	207	50.0	1	04/14/25	04/17/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	04/14/25	04/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	1970	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS34-0

E504097-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/14/25	
Toluene	ND	0.0250	1	04/14/25	04/14/25	
o-Xylene	ND	0.0250	1	04/14/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.9 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	129	25.0	1	04/14/25	04/16/25	
Oil Range Organics (C28-C36)	178	50.0	1	04/14/25	04/16/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	04/14/25	04/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	3370	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS35-0

E504097-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/14/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/14/25	
Toluene	ND	0.0250	1	04/14/25	04/14/25	
o-Xylene	ND	0.0250	1	04/14/25	04/14/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/14/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.3 %	70-130	04/14/25	04/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	77.0	25.0	1	04/14/25	04/16/25	
Oil Range Organics (C28-C36)	82.9	50.0	1	04/14/25	04/16/25	
<i>Surrogate: n-Nonane</i>		113 %	61-141	04/14/25	04/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	3610	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS37-0

E504097-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	1380	25.0	1	04/14/25	04/16/25	
Oil Range Organics (C28-C36)	489	50.0	1	04/14/25	04/16/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	04/14/25	04/16/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	2480	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS38-0

E504097-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516003
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516003
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.7 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2516009
Diesel Range Organics (C10-C28)	383	25.0	1	04/14/25	04/16/25	
Oil Range Organics (C28-C36)	262	50.0	1	04/14/25	04/16/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	04/14/25	04/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2516016
Chloride	1960	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS40-0

E504097-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.0 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	509	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	219	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>		116 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	2580	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS41-0

E504097-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	727	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	811	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	3620	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS45-0

E504097-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.4 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	329	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	293	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	3420	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS46-0

E504097-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	504	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	134	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	1940	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS47-0

E504097-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	796	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	70.3	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	2480	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS48-0

E504097-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516003
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2516003
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.7 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2516009
Diesel Range Organics (C10-C28)	615	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	65.1	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2516016
Chloride	922	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS49-0

E504097-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	2120	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	246	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	1300	20.0	1	04/14/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:31:41AM

FS51-0

E504097-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2516003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516009	
Diesel Range Organics (C10-C28)	274	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	114	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2516016	
Chloride	2690	40.0	2	04/14/25	04/15/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/18/2025 9:31:41AM
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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 (2516003-BLK1)

Prepared: 04/14/25 Analyzed: 04/14/25

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		98.4	70-130			

LCS (2516003-BS1)

Prepared: 04/14/25 Analyzed: 04/14/25

Benzene	5.27	0.0250	5.00		105	70-130			
Ethylbenzene	5.23	0.0250	5.00		105	70-130			
Toluene	5.27	0.0250	5.00		105	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			

Matrix Spike (2516003-MS1)

Source: E504097-03

Prepared: 04/14/25 Analyzed: 04/14/25

Benzene	5.37	0.0250	5.00	ND	107	70-130			
Ethylbenzene	5.30	0.0250	5.00	ND	106	70-130			
Toluene	5.36	0.0250	5.00	ND	107	70-130			
o-Xylene	5.20	0.0250	5.00	ND	104	70-130			
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130			
Total Xylenes	15.9	0.0250	15.0	ND	106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.84		8.00		98.0	70-130			

Matrix Spike Dup (2516003-MSD1)

Source: E504097-03

Prepared: 04/14/25 Analyzed: 04/14/25

Benzene	5.08	0.0250	5.00	ND	102	70-130	5.45	27	
Ethylbenzene	5.02	0.0250	5.00	ND	100	70-130	5.32	26	
Toluene	5.08	0.0250	5.00	ND	102	70-130	5.29	20	
o-Xylene	4.93	0.0250	5.00	ND	98.6	70-130	5.41	25	
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130	5.28	23	
Total Xylenes	15.0	0.0250	15.0	ND	100	70-130	5.32	26	
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.8	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/18/2025 9:31:41AM
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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 (2516003-BLK1) Prepared: 04/14/25 Analyzed: 04/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

LCS (2516003-BS2) Prepared: 04/14/25 Analyzed: 04/14/25

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0		88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.3	70-130			

Matrix Spike (2516003-MS2) Source: E504097-03 Prepared: 04/14/25 Analyzed: 04/14/25

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike Dup (2516003-MSD2) Source: E504097-03 Prepared: 04/14/25 Analyzed: 04/14/25

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.6	70-130	1.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2025 9:31:41AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2516009-BLK1) Prepared: 04/14/25 Analyzed: 04/16/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.2		50.0		108	61-141			

LCS (2516009-BS1) Prepared: 04/14/25 Analyzed: 04/16/25

Diesel Range Organics (C10-C28)	294	25.0	250		117	66-144			
Surrogate: n-Nonane	59.2		50.0		118	61-141			

Matrix Spike (2516009-MS1) Source: E504097-01 Prepared: 04/14/25 Analyzed: 04/16/25

Diesel Range Organics (C10-C28)	392	25.0	250	76.8	126	56-156			
Surrogate: n-Nonane	55.9		50.0		112	61-141			

Matrix Spike Dup (2516009-MSD1) Source: E504097-01 Prepared: 04/14/25 Analyzed: 04/16/25

Diesel Range Organics (C10-C28)	395	25.0	250	76.8	127	56-156	0.871	20	
Surrogate: n-Nonane	56.1		50.0		112	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2025 9:31:41AM

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 (2516059-BLK1)					Prepared: 04/16/25 Analyzed: 04/17/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.7		50.0		107	61-141			

LCS (2516059-BS1)					Prepared: 04/16/25 Analyzed: 04/17/25				
Diesel Range Organics (C10-C28)	279	25.0	250		112	66-144			
Surrogate: n-Nonane	53.6		50.0		107	61-141			

Matrix Spike (2516059-MS1)				Source: E504126-01		Prepared: 04/16/25 Analyzed: 04/17/25			
Diesel Range Organics (C10-C28)	4510	50.0	250	3780	292	56-156			M4
Surrogate: n-Nonane	60.1		50.0		120	61-141			

Matrix Spike Dup (2516059-MSD1)				Source: E504126-01		Prepared: 04/16/25 Analyzed: 04/17/25			
Diesel Range Organics (C10-C28)	4560	50.0	250	3780	312	56-156	1.06	20	M4
Surrogate: n-Nonane	60.2		50.0		120	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/18/2025 9:31:41AM
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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 (2516016-BLK1)					Prepared: 04/14/25 Analyzed: 04/14/25				
Chloride	ND	20.0							
LCS (2516016-BS1)					Prepared: 04/14/25 Analyzed: 04/14/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2516016-MS1)					Source: E504097-03		Prepared: 04/14/25 Analyzed: 04/14/25		
Chloride	1720	20.0	250	1460	104	80-120			
Matrix Spike Dup (2516016-MSD1)					Source: E504097-03		Prepared: 04/14/25 Analyzed: 04/14/25		
Chloride	1880	20.0	250	1460	168	80-120	8.89	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/18/25 09:31

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

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

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

Chain of Custody

Page 1 of 7

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E504097		Job Number 23003-002		1D	2D	3D	Std	NM	CO	UT	TX
Project: Big Bucks Fed Com 501H				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	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
0411	4/10/25	Soil	1	FS23-0		1						*					
0416				24		2						+					
0909				25		3						+					
0907				26		4						+					
0918				28		5						+					
0921				29		6						+					
1132				30		7						+					
1221				33		8						+					
1220				34		9						x					
1238				35		10						+					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jhinkle@ensolum.com, rrai@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Jenna Hinkle and Rhythum Rai																	
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.									
Jenna Hinkle		4-11-25	1545	Michelle Gonzales		4-11-25	1100										
Michelle Gonzales		4-11-25	1545	Jenna Hinkle		4-11-25	1715										
Jenna Hinkle		4-11-25	2400	Caitlin Mann		4-11-25	1745										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only									
Caitlin Mann		4-11-25	2400	Caitlin Mann		4-11-25	1745	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N									
								T1 _____ T2 _____ T3 _____									
								AVG Temp °C 4									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



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Chain of Custody

Page 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: Big Bucks Fed Com 501H				Address: 3122 National Parks Hwy		E54097		Job Number				230030002					
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/RO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
1133	4/10/2025	Soil	1	FS37-0		11						+					
113A				38		12						+					
1223				40		13						+					
1224				41		14						+					
1134				45		15						+					
0958				46		16						+					
0956				47		17						+					
1135				48		18						+					
1136				44		19						+					
1225				51		20						+					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jhinkle@ensolum.com, rrai@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Jenna Hinkle and Rythum Rai																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Jenna Hinkle		4-11-25	1545	Michelle Gonzales		4-11-25	1100										
Michelle Gonzales		4-11-25	1545	Jenna Hinkle		4-11-25	1715										
Rythum Rai		4-11-25	2400	Caitlin Mann		4-14-25	745										
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: 4/14/2025 9:09:21AM

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:	04/14/25 07:45	Work Order ID:	E504097
Phone:	(972) 371-5200	Date Logged In:	04/11/25 14:24	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	04/18/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Big Bucks Fed Com 501H has been separated into 3 reports due to sample volume. WO are E50497 to E504099.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E504098

Job Number: 23003-0002

Received: 4/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/18/25

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: 4/18/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E504098
Date Received: 4/14/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/14/2025 7:45:00AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
04/18/25 09:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS52-0'	E504098-01A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS53-0'	E504098-02A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS54-0'	E504098-03A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS55-0'	E504098-04A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS56-0'	E504098-05A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS69-0'	E504098-06A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS73-0'	E504098-07A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS79-0'	E504098-08A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS81-0'	E504098-09A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS85-0'	E504098-10A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS86-0'	E504098-11A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS87-0'	E504098-12A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS88-0'	E504098-13A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS89-0'	E504098-14A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS90-0'	E504098-15A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS91-0'	E504098-16A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS93-0'	E504098-17A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS94-0'	E504098-18A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS100-0'	E504098-19A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS102-0'	E504098-20A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS52-0'

E504098-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	83.4 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.5 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	113	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	72.2	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>	118 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	1050	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS53-0'

E504098-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.7 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	109 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	1260	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS54-0'

E504098-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	83.6 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.4 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	131	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	70.8	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>	108 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	1330	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS55-0'

E504098-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	83.1 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	433	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	187	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	112 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	1970	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS56-0'

E504098-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	83.8 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.8 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	796	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	575	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>	109 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	2680	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS69-0'

E504098-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	81.9 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	4450	500	20	04/14/25	04/17/25	
Oil Range Organics (C28-C36)	8530	1000	20	04/14/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	96.1 %	61-141		04/14/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	1830	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS73-0'

E504098-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	82.9 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	302	25.0	1	04/14/25	04/17/25	
Oil Range Organics (C28-C36)	325	50.0	1	04/14/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		04/14/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	1430	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS79-0'

E504098-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	82.5 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.2 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	917	125	5	04/14/25	04/17/25	
Oil Range Organics (C28-C36)	2070	250	5	04/14/25	04/17/25	
<i>Surrogate: n-Nonane</i>	104 %	61-141		04/14/25	04/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	865	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS81-0'

E504098-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	83.5 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	457	25.0	1	04/14/25	04/17/25	
Oil Range Organics (C28-C36)	665	50.0	1	04/14/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		04/14/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	872	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS85-0'

E504098-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	82.0 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	1380	250	10	04/14/25	04/17/25	
Oil Range Organics (C28-C36)	6360	500	10	04/14/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		04/14/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	726	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS86-0'

E504098-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	82.5 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.3 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	181	25.0	1	04/14/25	04/17/25	
Oil Range Organics (C28-C36)	636	50.0	1	04/14/25	04/17/25	
<i>Surrogate: n-Nonane</i>	109 %	61-141		04/14/25	04/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	1300	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS87-0'

E504098-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	81.5 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	748	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	2180	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	104 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	1340	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS88-0'

E504098-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	81.7 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	1530	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	2840	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	114 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	1590	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS89-0'

E504098-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	82.7 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	349	25.0	1	04/14/25	04/17/25	
Oil Range Organics (C28-C36)	603	50.0	1	04/14/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	112 %	61-141		04/14/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	3110	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS90-0'

E504098-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516004
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	82.6 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516004
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2516019
Diesel Range Organics (C10-C28)	1670	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	3140	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	112 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516017
Chloride	992	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS91-0'

E504098-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	81.2 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	1730	50.0	2	04/14/25	04/17/25	
Oil Range Organics (C28-C36)	3290	100	2	04/14/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		04/14/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	1670	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS93-0'

E504098-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.4 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	46.9	25.0	1	04/14/25	04/17/25	
Oil Range Organics (C28-C36)	109	50.0	1	04/14/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	114 %	61-141		04/14/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	405	20.0	1	04/14/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS94-0'

E504098-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	83.1 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	346	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	213	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	109 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	2470	40.0	2	04/14/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS100-0'

E504098-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	83.7 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.0 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	66.7	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	135	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>	112 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	2800	40.0	2	04/14/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 9:36:45AM

FS102-0'

E504098-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	83.9 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.9 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2516019	
Diesel Range Organics (C10-C28)	156	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	237	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>	109 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2516017	
Chloride	1170	20.0	1	04/14/25	04/15/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2025 9:36:45AM

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 (2516004-BLK1)

Prepared: 04/14/25 Analyzed: 04/15/25

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	6.87		8.00		85.9	70-130			

LCS (2516004-BS1)

Prepared: 04/14/25 Analyzed: 04/15/25

Benzene	5.37	0.0250	5.00		107	70-130			
Ethylbenzene	5.30	0.0250	5.00		106	70-130			
Toluene	5.36	0.0250	5.00		107	70-130			
o-Xylene	5.26	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		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.92		8.00		86.5	70-130			

Matrix Spike (2516004-MS1)

Source: E504098-05

Prepared: 04/14/25 Analyzed: 04/15/25

Benzene	5.46	0.0250	5.00	ND	109	70-130			
Ethylbenzene	5.38	0.0250	5.00	ND	108	70-130			
Toluene	5.46	0.0250	5.00	ND	109	70-130			
o-Xylene	5.30	0.0250	5.00	ND	106	70-130			
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130			
Total Xylenes	16.1	0.0250	15.0	ND	108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.75		8.00		84.4	70-130			

Matrix Spike Dup (2516004-MSD1)

Source: E504098-05

Prepared: 04/14/25 Analyzed: 04/15/25

Benzene	5.88	0.0250	5.00	ND	118	70-130	7.50	27	
Ethylbenzene	5.82	0.0250	5.00	ND	116	70-130	7.74	26	
Toluene	5.88	0.0250	5.00	ND	118	70-130	7.37	20	
o-Xylene	5.73	0.0250	5.00	ND	115	70-130	7.74	25	
p,m-Xylene	11.7	0.0500	10.0	ND	117	70-130	7.68	23	
Total Xylenes	17.4	0.0250	15.0	ND	116	70-130	7.70	26	
Surrogate: 4-Bromochlorobenzene-PID	6.63		8.00		82.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/18/2025 9:36:45AM
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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 (2516004-BLK1)

Prepared: 04/14/25 Analyzed: 04/15/25

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

LCS (2516004-BS2)

Prepared: 04/14/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	43.5	20.0	50.0		87.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

Matrix Spike (2516004-MS2)

Source: E504098-05

Prepared: 04/14/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0	ND	86.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

Matrix Spike Dup (2516004-MSD2)

Source: E504098-05

Prepared: 04/14/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130	1.48	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2025 9:36:45AM

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 (2516019-BLK1)					Prepared: 04/14/25 Analyzed: 04/15/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.9		50.0		112	61-141			

LCS (2516019-BS1)					Prepared: 04/14/25 Analyzed: 04/15/25				
Diesel Range Organics (C10-C28)	288	25.0	250		115	66-144			
Surrogate: n-Nonane	56.9		50.0		114	61-141			

Matrix Spike (2516019-MS1)					Source: E504098-04		Prepared: 04/14/25 Analyzed: 04/15/25		
Diesel Range Organics (C10-C28)	790	25.0	250	433	143	56-156			
Surrogate: n-Nonane	56.5		50.0		113	61-141			

Matrix Spike Dup (2516019-MSD1)					Source: E504098-04		Prepared: 04/14/25 Analyzed: 04/15/25		
Diesel Range Organics (C10-C28)	749	25.0	250	433	126	56-156	5.28	20	
Surrogate: n-Nonane	55.8		50.0		112	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/18/2025 9:36:45AM
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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 (2516017-BLK1)					Prepared: 04/14/25 Analyzed: 04/14/25				
Chloride	ND	20.0							
LCS (2516017-BS1)					Prepared: 04/14/25 Analyzed: 04/14/25				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2516017-MS1)					Source: E504098-05		Prepared: 04/14/25 Analyzed: 04/14/25		
Chloride	2700	40.0	250	2680	6.96	80-120			M4
Matrix Spike Dup (2516017-MSD1)					Source: E504098-05		Prepared: 04/14/25 Analyzed: 04/14/25		
Chloride	2750	40.0	250	2680	27.1	80-120	1.85	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/18/25 09:36

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

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

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



Chain of Custody

Page 3 of 7

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: Big Bucks Fed Com 501H					Address: 3122 National Parks Hwy			E504098		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	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
1226	4/10/2025	Soil	1	FS 52-01			1						+						
1230				53			2						+						
1231				54			3						+						
1226				55			4						+						
1228				56			5						+						
1236				69			6						+						
1243				73			7						+						
1241				79			8						+						
1242				81			9						+						
1235				85			10						+						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jhinkle@ensolum.com, rrai@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Jenna Hinkle and Rythum Rai																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



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Chain of Custody

Page 4 of 7

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E 504098		Job Number 230080002		1D	2D	3D	Std	NM	CO	UT	TX	
Project: Big Bucks Fed Com 501H				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/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
1239	4/10/2025	Soil	1	FS 86-0'			11						+					
1233				87			12						+					
1236				88			13						+					
1246				89			14						+					
1239				90			15						+					
1239				91			16						+					
1237				93			17						+					
1235				94			18						+					
1242				100			19						+					
1243				102			20						+					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jhinkle@ensolum.com, rrai@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Jenna Hinkle and Rythum Rai																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



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Envirotech Analytical Laboratory

Printed: 4/14/2025 9:11:17AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	04/14/25 07:45	Work Order ID:	E504098
Phone:	(972) 371-5200	Date Logged In:	04/11/25 14:32	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	04/18/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Big Bucks Fed Com 501H has been separated into 3 reports due to sample volume. WO are E50497 to E504099.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E504099

Job Number: 23003-0002

Received: 4/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/18/25

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: 4/18/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E504099
Date Received: 4/14/2025 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/14/2025 7:45:00AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
04/18/25 14:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS103-0'	E504099-01A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS104-0'	E504099-02A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS105-0'	E504099-03A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS118-0'	E504099-04A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS120-0'	E504099-05A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS127-0'	E504099-06A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS128-0'	E504099-07A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS130-0'	E504099-08A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS131-0'	E504099-09A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS132-0'	E504099-10A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS133-0'	E504099-11A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS134-0'	E504099-12A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS135-0'	E504099-13A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS136-0'	E504099-14A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS137-0'	E504099-15A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS138-0'	E504099-16A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS140-0'	E504099-17A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS156-0'	E504099-18A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS159-0'	E504099-19A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS170-0'	E504099-20A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS171-0'	E504099-21A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS172-0'	E504099-22A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS173-0'	E504099-23A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS174-0'	E504099-24A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS177-0'	E504099-25A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.
FS184-0'	E504099-26A	Soil	04/10/25	04/14/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS103-0'

E504099-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.1 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.3 %	70-130	04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: IY		Batch: 2516022	
Diesel Range Organics (C10-C28)	1880	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	3270	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>		112 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2516020	
Chloride	2810	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS104-0'

E504099-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.7 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: IY		Batch: 2516022	
Diesel Range Organics (C10-C28)	34.5	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>		115 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2516020	
Chloride	1710	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS105-0'

E504099-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.8 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2516022	
Diesel Range Organics (C10-C28)	142	25.0	1	04/14/25	04/17/25	
Oil Range Organics (C28-C36)	195	50.0	1	04/14/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	118 %	61-141		04/14/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2516020	
Chloride	1610	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS118-0'

E504099-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.7 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2516022	
Diesel Range Organics (C10-C28)	129	25.0	1	04/14/25	04/17/25	
Oil Range Organics (C28-C36)	76.6	50.0	1	04/14/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
		116 %	61-141	04/14/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2516020	
Chloride	2120	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS120-0'

E504099-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2516022	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	113 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2516020	
Chloride	8260	100	5	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS127-0'

E504099-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.6 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2516022	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
		111 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2516020	
Chloride	2010	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS128-0'

E504099-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2516022	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
		115 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2516020	
Chloride	5180	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS130-0'

E504099-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.3 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2516022	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	112 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2516020	
Chloride	6980	100	5	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS131-0'

E504099-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.3 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.1 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: IY		Batch: 2516022	
Diesel Range Organics (C10-C28)	55.1	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>	115 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2516020	
Chloride	5980	100	5	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS132-0'

E504099-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.6 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516022
Diesel Range Organics (C10-C28)	283	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	115 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516020
Chloride	1020	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS133-0'

E504099-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.2 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516022
Diesel Range Organics (C10-C28)	62.5	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
		112 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516020
Chloride	4190	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS134-0'

E504099-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.8 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516022
Diesel Range Organics (C10-C28)	169	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
		112 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516020
Chloride	1910	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS135-0'

E504099-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.1 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516022
Diesel Range Organics (C10-C28)	48.1	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
		113 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516020
Chloride	12300	200	10	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS136-0'

E504099-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.1 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516022
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	116 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516020
Chloride	2750	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS137-0'

E504099-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.4 %	70-130	04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516022
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
		119 %	61-141	04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516020
Chloride	6030	100	5	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS138-0'

E504099-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2516022	
Diesel Range Organics (C10-C28)	80.2	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	112 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2516020	
Chloride	3790	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS140-0'

E504099-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516022
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	116 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516020
Chloride	3340	40.0	2	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS156-0'

E504099-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.1 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516022
Diesel Range Organics (C10-C28)	98.0	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	50.6	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	116 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516020
Chloride	581	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS159-0'

E504099-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516013
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.0 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516022
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	118 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516020
Chloride	822	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS170-0'

E504099-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Benzene	ND	0.0250	1	04/14/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/16/25	
Toluene	ND	0.0250	1	04/14/25	04/16/25	
o-Xylene	ND	0.0250	1	04/14/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.7 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.6 %	70-130		04/14/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: IY		Batch: 2516022	
Diesel Range Organics (C10-C28)	5650	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	652	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>	112 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2516020	
Chloride	1180	20.0	1	04/14/25	04/14/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS171-0'

E504099-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516002
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516002
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516008
Diesel Range Organics (C10-C28)	3190	25.0	1	04/14/25	04/14/25	
Oil Range Organics (C28-C36)	248	50.0	1	04/14/25	04/14/25	
<i>Surrogate: n-Nonane</i>						
	115 %	61-141		04/14/25	04/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516029
Chloride	4680	40.0	2	04/15/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS172-0'

E504099-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516002
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.6 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516002
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516008
Diesel Range Organics (C10-C28)	1240	25.0	1	04/14/25	04/14/25	
Oil Range Organics (C28-C36)	176	50.0	1	04/14/25	04/14/25	
<i>Surrogate: n-Nonane</i>						
	113 %	61-141		04/14/25	04/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516029
Chloride	2900	40.0	2	04/15/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS173-0'

E504099-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516002
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.4 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516002
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516008
Diesel Range Organics (C10-C28)	687	25.0	1	04/14/25	04/14/25	
Oil Range Organics (C28-C36)	150	50.0	1	04/14/25	04/14/25	
<i>Surrogate: n-Nonane</i>						
	107 %	61-141		04/14/25	04/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516029
Chloride	2580	40.0	2	04/15/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS174-0'

E504099-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516002
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.0 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516002
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516008
Diesel Range Organics (C10-C28)	4130	25.0	1	04/14/25	04/14/25	
Oil Range Organics (C28-C36)	820	50.0	1	04/14/25	04/14/25	
<i>Surrogate: n-Nonane</i>						
	107 %	61-141		04/14/25	04/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516029
Chloride	1540	20.0	1	04/15/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS177-0'

E504099-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516002
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	82.5 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516002
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516008
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	109 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516029
Chloride	830	20.0	1	04/15/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/18/2025 2:07:36PM

FS184-0'

E504099-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516002
Benzene	ND	0.0250	1	04/14/25	04/15/25	
Ethylbenzene	ND	0.0250	1	04/14/25	04/15/25	
Toluene	ND	0.0250	1	04/14/25	04/15/25	
o-Xylene	ND	0.0250	1	04/14/25	04/15/25	
p,m-Xylene	ND	0.0500	1	04/14/25	04/15/25	
Total Xylenes	ND	0.0250	1	04/14/25	04/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.8 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516002
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/25	04/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		04/14/25	04/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2516008
Diesel Range Organics (C10-C28)	2180	25.0	1	04/14/25	04/15/25	
Oil Range Organics (C28-C36)	1650	50.0	1	04/14/25	04/15/25	
<i>Surrogate: n-Nonane</i>						
	113 %	61-141		04/14/25	04/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2516029
Chloride	696	20.0	1	04/15/25	04/15/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2025 2:07:36PM

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 (2516002-BLK1)

Prepared: 04/14/25 Analyzed: 04/14/25

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	7.01		8.00		87.6	70-130			

LCS (2516002-BS1)

Prepared: 04/14/25 Analyzed: 04/14/25

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.08	0.0250	5.00		102	70-130			
Toluene	5.13	0.0250	5.00		103	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.08		8.00		88.5	70-130			

Matrix Spike (2516002-MS1)

Source: E504095-04

Prepared: 04/14/25 Analyzed: 04/14/25

Benzene	5.01	0.0250	5.00	ND	100	70-130			
Ethylbenzene	4.94	0.0250	5.00	ND	98.8	70-130			
Toluene	5.01	0.0250	5.00	ND	100	70-130			
o-Xylene	4.95	0.0250	5.00	ND	98.9	70-130			
p,m-Xylene	10.0	0.0500	10.0	ND	100	70-130			
Total Xylenes	14.9	0.0250	15.0	ND	99.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.8	70-130			

Matrix Spike Dup (2516002-MSD1)

Source: E504095-04

Prepared: 04/14/25 Analyzed: 04/14/25

Benzene	5.96	0.0250	5.00	ND	119	70-130	17.4	27	
Ethylbenzene	5.90	0.0250	5.00	ND	118	70-130	17.6	26	
Toluene	5.95	0.0250	5.00	ND	119	70-130	17.3	20	
o-Xylene	5.84	0.0250	5.00	ND	117	70-130	16.5	25	
p,m-Xylene	11.9	0.0500	10.0	ND	119	70-130	17.2	23	
Total Xylenes	17.7	0.0250	15.0	ND	118	70-130	17.0	26	
Surrogate: 4-Bromochlorobenzene-PID	7.08		8.00		88.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2025 2:07:36PM

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 (2516013-BLK1)

Prepared: 04/14/25 Analyzed: 04/15/25

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	8.04		8.00		100	70-130			

LCS (2516013-BS1)

Prepared: 04/14/25 Analyzed: 04/15/25

Benzene	4.77	0.0250	5.00		95.4	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.3	70-130			
Toluene	4.80	0.0250	5.00		95.9	70-130			
o-Xylene	4.75	0.0250	5.00		95.0	70-130			
p,m-Xylene	9.51	0.0500	10.0		95.1	70-130			
Total Xylenes	14.3	0.0250	15.0		95.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			

Matrix Spike (2516013-MS1)

Source: E504099-09

Prepared: 04/14/25 Analyzed: 04/15/25

Benzene	4.69	0.0250	5.00	ND	93.8	70-130			
Ethylbenzene	4.68	0.0250	5.00	ND	93.7	70-130			
Toluene	4.72	0.0250	5.00	ND	94.3	70-130			
o-Xylene	4.66	0.0250	5.00	ND	93.2	70-130			
p,m-Xylene	9.36	0.0500	10.0	ND	93.6	70-130			
Total Xylenes	14.0	0.0250	15.0	ND	93.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike Dup (2516013-MSD1)

Source: E504099-09

Prepared: 04/14/25 Analyzed: 04/15/25

Benzene	4.60	0.0250	5.00	ND	91.9	70-130	2.07	27	
Ethylbenzene	4.55	0.0250	5.00	ND	91.0	70-130	2.93	26	
Toluene	4.60	0.0250	5.00	ND	92.1	70-130	2.39	20	
o-Xylene	4.54	0.0250	5.00	ND	90.8	70-130	2.58	25	
p,m-Xylene	9.08	0.0500	10.0	ND	90.8	70-130	3.00	23	
Total Xylenes	13.6	0.0250	15.0	ND	90.8	70-130	2.86	26	
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2025 2:07:36PM

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 (2516002-BLK1) Prepared: 04/14/25 Analyzed: 04/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS (2516002-BS2) Prepared: 04/14/25 Analyzed: 04/14/25

Gasoline Range Organics (C6-C10)	38.7	20.0	50.0		77.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

Matrix Spike (2516002-MS2) Source: E504095-04 Prepared: 04/14/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	39.1	20.0	50.0	ND	78.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike Dup (2516002-MSD2) Source: E504095-04 Prepared: 04/14/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	14.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/18/2025 2:07:36PM
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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 (2516013-BLK1)

Prepared: 04/14/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

LCS (2516013-BS2)

Prepared: 04/14/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0		91.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.2	70-130			

Matrix Spike (2516013-MS2)

Source: E504099-09

Prepared: 04/14/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		8.00		103	70-130			

Matrix Spike Dup (2516013-MSD2)

Source: E504099-09

Prepared: 04/14/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130	0.749	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.03		8.00		100	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2025 2:07:36PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

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 (2516008-BLK1)					Prepared: 04/14/25 Analyzed: 04/14/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.7		50.0		111	61-141			

LCS (2516008-BS1)					Prepared: 04/14/25 Analyzed: 04/14/25				
Diesel Range Organics (C10-C28)	284	25.0	250		113	66-144			
Surrogate: n-Nonane	55.3		50.0		111	61-141			

Matrix Spike (2516008-MS1)					Source: E504025-04		Prepared: 04/14/25 Analyzed: 04/14/25		
Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	56-156			
Surrogate: n-Nonane	56.9		50.0		114	61-141			

Matrix Spike Dup (2516008-MSD1)					Source: E504025-04		Prepared: 04/14/25 Analyzed: 04/14/25		
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	56-156	2.24	20	
Surrogate: n-Nonane	58.5		50.0		117	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/18/2025 2:07:36PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

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 (2516022-BLK1)					Prepared: 04/14/25 Analyzed: 04/15/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.2		50.0		110	61-141			

LCS (2516022-BS1)					Prepared: 04/14/25 Analyzed: 04/15/25				
Diesel Range Organics (C10-C28)	283	25.0	250		113	66-144			
Surrogate: n-Nonane	56.5		50.0		113	61-141			

Matrix Spike (2516022-MS1)					Source: E504099-02		Prepared: 04/14/25 Analyzed: 04/15/25		
Diesel Range Organics (C10-C28)	384	25.0	250	34.5	140	56-156			
Surrogate: n-Nonane	65.3		50.0		131	61-141			

Matrix Spike Dup (2516022-MSD1)					Source: E504099-02		Prepared: 04/14/25 Analyzed: 04/15/25		
Diesel Range Organics (C10-C28)	315	25.0	250	34.5	112	56-156	19.5	20	
Surrogate: n-Nonane	56.1		50.0		112	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/18/2025 2:07:36PM
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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 (2516020-BLK1)					Prepared: 04/14/25 Analyzed: 04/14/25				
Chloride	ND	20.0							
LCS (2516020-BS1)					Prepared: 04/14/25 Analyzed: 04/14/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2516020-MS1)					Source: E504099-09		Prepared: 04/14/25 Analyzed: 04/14/25		
Chloride	6630	100	250	5980	262	80-120			M4
Matrix Spike Dup (2516020-MSD1)					Source: E504099-09		Prepared: 04/14/25 Analyzed: 04/14/25		
Chloride	6440	100	250	5980	185	80-120	2.95	20	M4



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/18/2025 2:07:36PM
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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 (2516029-BLK1)					Prepared: 04/15/25 Analyzed: 04/15/25				
Chloride	ND	20.0							
LCS (2516029-BS1)					Prepared: 04/15/25 Analyzed: 04/15/25				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2516029-MS1)					Source: E504099-23		Prepared: 04/15/25 Analyzed: 04/15/25		
Chloride	2590	40.0	250	2580	2.84	80-120			M4
Matrix Spike Dup (2516029-MSD1)					Source: E504099-23		Prepared: 04/15/25 Analyzed: 04/15/25		
Chloride	2720	40.0	250	2580	53.9	80-120	4.81	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/18/25 14:07

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

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

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



Chain of Custody

Page 5 of 7

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# 504099		Job Number 25003-0002		1D	2D	3D	Std	NM	CO	UT	TX
Project: Big Bucks Fed Com 501H				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/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
1246	4/10/2025	Sr.1	1	FS103-01		1						+					
1243				104		2						+					
1244				105		3						+					
0906				118		4						+					
0904				120		5						+					
0900				127		6						+					
0919				128		7						+					
0922				130		8						+					
0954				131		9						+					
0956				132		10						+					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jhinkle@ensolum.com, rrai@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Jenna Hinkle and Rythum Rai																	
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.									
Jenna Hinkle				Michelle Gonzales		4-11-25	1100	Lab Use Only									
Michelle Gonzales		4-11-25	1545	Jenna Hinkle		4-11-25	1715	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N									
Candace M.		4-11-25	2400	Candace M.		4-14-25	745	T1 _____ T2 _____ T3 _____									
								AVG Temp °C 4									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



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Chain of Custody

Page 6 of 7

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: Big Bucks Fed Com 501H				Address: 3122 National Parks Hwy		E504099		23003-0002				x					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
0453	4/10/2025	Soil	1	FS133-0'		11						+					
0455				134		12						+					
0438				135		13						+					
0442				136		14						+					
0444				137		15						+					
0453				138		16						+					
0453				140		17						+					
0442				156		18						X					
0450				154		19						X					
1136				170		20						+					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jhinkle@ensolum.com, rrai@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Jenna Hinkle and Rythum Rai																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Jenna Hinkle				Michelle Gonzales		4-11-25	1100										
Michelle Gonzales		4-11-25	1545	Jenna Hinkle		4-11-25	1715										
Jenna Hinkle		4-11-25	2400	Caitlyn Mann		4-14-25	745										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Caitlyn Mann		4-11-25															
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 7 of 7

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: Big Bucks Fed Com 501H				Address: 3122 National Parks Hwy		E504099		2303-0002				x					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
1137	4/11/25	Soil	1	FS 171 -0'		21						+					
1138				172		22						+					
1158				173		23						+					
1157				174		24						+					
1148				177		25						+					
1230	↓	↓	↓	184		26						+					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jhinkle@ensolum.com, rrai@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Jenna Hinkle and Rythum Rai																	
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: ①/ N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Jenna Hinkle		4-11-25	1545	Michelle Gonzales		4-11-25	1100										
Michelle Gonzales		4-11-25	1545	Jenna Hinkle		4-11-25	1715										
Jenna Hinkle		4-11-25	2400	Caitlin Mann		4-14-25	745										
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: 4/14/2025 9:13:38AM

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:	04/14/25 07:45	Work Order ID:	E504099
Phone:	(972) 371-5200	Date Logged In:	04/11/25 14:35	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	04/18/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Big Bucks Fed Com 501H has been separated into 3 reports due to sample volume. WO are E50497 to E504099.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E504115

Job Number: 23003-0002

Received: 4/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/21/25

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: 4/21/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E504115
Date Received: 4/15/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/15/2025 7:30:00AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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:

Big Bucks Fed Com 501H

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

04/21/25 13:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS27-0'	E504115-01A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS42-1'	E504115-02A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS43-0'	E504115-03A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS44-0'	E504115-04A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS98-0'	E504115-05A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS119-0'	E504115-06A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS121-0'	E504115-07A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS122-0'	E504115-08A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS125-0'	E504115-09A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS129-0'	E504115-10A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS139-0'	E504115-11A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS144-0'	E504115-12A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS155-0'	E504115-13A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS169-0'	E504115-14A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS182-0'	E504115-15A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS186-1'	E504115-16A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS191-1.5'	E504115-17A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS194-0'	E504115-18A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS206-0'	E504115-19A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS207-0'	E504115-20A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS208-0'	E504115-21A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS211-0'	E504115-22A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.
FS216-0'	E504115-23A	Soil	04/11/25	04/15/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS27-0'

E504115-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516037	
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	86.0 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.9 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2516048	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>	93.5 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2516047	
Chloride	2800	40.0	2	04/15/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS42-1'

E504115-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.7 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	97.2 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	851	20.0	1	04/15/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS43-0'

E504115-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.1 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	33.3	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	97.7 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	600	20.0	1	04/15/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS44-0'

E504115-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/17/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/17/25	
Toluene	ND	0.0250	1	04/15/25	04/17/25	
o-Xylene	ND	0.0250	1	04/15/25	04/17/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/17/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.5 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	1080	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	679	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	96.2 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	2240	40.0	2	04/15/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS98-0'

E504115-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516037	
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	85.9 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.8 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2516048	
Diesel Range Organics (C10-C28)	184	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>	99.2 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2516047	
Chloride	863	20.0	1	04/15/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS119-0'

E504115-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.5 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	96.9 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	1780	20.0	1	04/15/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS121-0'

E504115-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2516037	
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	85.3 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2516037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.9 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2516048	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>	96.4 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2516047	
Chloride	563	20.0	1	04/15/25	04/15/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS122-0'

E504115-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.4 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	94.6 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	1260	20.0	1	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS125-0'

E504115-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516037	
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.4 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.6 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2516048	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	96.5 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2516047	
Chloride	3030	40.0	2	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS129-0'

E504115-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516037	
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.6 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2516048	
Diesel Range Organics (C10-C28)	38.8	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	97.7 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2516047	
Chloride	7820	100	5	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS139-0'

E504115-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	83.1 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	98.7 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	2410	40.0	2	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS144-0'

E504115-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	81.9 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	33.1	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	97.8 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	662	20.0	1	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS155-0'

E504115-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516037	
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	81.8 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2516048	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	93.7 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2516047	
Chloride	97.2	20.0	1	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS169-0'

E504115-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/17/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/17/25	
Toluene	ND	0.0250	1	04/15/25	04/17/25	
o-Xylene	ND	0.0250	1	04/15/25	04/17/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/17/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.5 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	97.7 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	258	20.0	1	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS182-0'

E504115-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/17/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/17/25	
Toluene	ND	0.0250	1	04/15/25	04/17/25	
o-Xylene	ND	0.0250	1	04/15/25	04/17/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/17/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.5 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	98.0 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	654	20.0	1	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS186-1'

E504115-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/17/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/17/25	
Toluene	ND	0.0250	1	04/15/25	04/17/25	
o-Xylene	ND	0.0250	1	04/15/25	04/17/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/17/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.3 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	140	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	105 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	558	20.0	1	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS191-1.5'

E504115-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/17/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/17/25	
Toluene	ND	0.0250	1	04/15/25	04/17/25	
o-Xylene	ND	0.0250	1	04/15/25	04/17/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/17/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.8 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	95.8 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	ND	20.0	1	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS194-0'

E504115-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/17/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/17/25	
Toluene	ND	0.0250	1	04/15/25	04/17/25	
o-Xylene	ND	0.0250	1	04/15/25	04/17/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/17/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.5 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	52.5	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	156	20.0	1	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS206-0'

E504115-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/17/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/17/25	
Toluene	ND	0.0250	1	04/15/25	04/17/25	
o-Xylene	ND	0.0250	1	04/15/25	04/17/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/17/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	102 %	61-141		04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	1660	20.0	1	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS207-0'

E504115-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Benzene	ND	0.0250	1	04/15/25	04/17/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/17/25	
Toluene	ND	0.0250	1	04/15/25	04/17/25	
o-Xylene	ND	0.0250	1	04/15/25	04/17/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/17/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		90.2 %	70-130	04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2516037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	04/15/25	04/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2516048
Diesel Range Organics (C10-C28)	ND	25.0	1	04/15/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/15/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	04/15/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2516047
Chloride	430	20.0	1	04/15/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS208-0'

E504115-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516034	
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.1 %	70-130	04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2516057	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/16/25	04/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/16/25	04/16/25	
<i>Surrogate: n-Nonane</i>						
		113 %	61-141	04/16/25	04/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516054	
Chloride	692	20.0	1	04/16/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS211-0'

E504115-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516034	
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.6 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2516057	
Diesel Range Organics (C10-C28)	62.4	25.0	1	04/16/25	04/16/25	
Oil Range Organics (C28-C36)	64.2	50.0	1	04/16/25	04/16/25	
<i>Surrogate: n-Nonane</i>						
	111 %	61-141		04/16/25	04/16/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516054	
Chloride	1180	20.0	1	04/16/25	04/16/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
4/21/2025 1:41:00PM

FS216-0'

E504115-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516034	
Benzene	ND	0.0250	1	04/15/25	04/16/25	
Ethylbenzene	ND	0.0250	1	04/15/25	04/16/25	
Toluene	ND	0.0250	1	04/15/25	04/16/25	
o-Xylene	ND	0.0250	1	04/15/25	04/16/25	
p,m-Xylene	ND	0.0500	1	04/15/25	04/16/25	
Total Xylenes	ND	0.0250	1	04/15/25	04/16/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2516034	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/25	04/16/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		04/15/25	04/16/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: HM		Batch: 2516057	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/16/25	04/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/16/25	04/17/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		04/16/25	04/17/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2516054	
Chloride	156	20.0	1	04/16/25	04/16/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/21/2025 1:41:00PM

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 (2516034-BLK1) Prepared: 04/15/25 Analyzed: 04/15/25

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	7.85		8.00		98.1	70-130			

LCS (2516034-BS1) Prepared: 04/15/25 Analyzed: 04/16/25

Benzene	3.95	0.0250	5.00		79.1	70-130			
Ethylbenzene	4.08	0.0250	5.00		81.7	70-130			
Toluene	4.07	0.0250	5.00		81.4	70-130			
o-Xylene	4.04	0.0250	5.00		80.9	70-130			
p,m-Xylene	8.16	0.0500	10.0		81.6	70-130			
Total Xylenes	12.2	0.0250	15.0		81.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

Matrix Spike (2516034-MS1) Source: E504110-03 Prepared: 04/15/25 Analyzed: 04/16/25

Benzene	4.16	0.0250	5.00	ND	83.3	70-130			
Ethylbenzene	4.32	0.0250	5.00	ND	86.3	70-130			
Toluene	4.29	0.0250	5.00	ND	85.8	70-130			
o-Xylene	4.28	0.0250	5.00	ND	85.5	70-130			
p,m-Xylene	8.62	0.0500	10.0	ND	86.2	70-130			
Total Xylenes	12.9	0.0250	15.0	ND	86.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			

Matrix Spike Dup (2516034-MSD1) Source: E504110-03 Prepared: 04/15/25 Analyzed: 04/16/25

Benzene	4.17	0.0250	5.00	ND	83.5	70-130	0.253	27	
Ethylbenzene	4.34	0.0250	5.00	ND	86.9	70-130	0.644	26	
Toluene	4.32	0.0250	5.00	ND	86.3	70-130	0.561	20	
o-Xylene	4.31	0.0250	5.00	ND	86.1	70-130	0.691	25	
p,m-Xylene	8.68	0.0500	10.0	ND	86.8	70-130	0.603	23	
Total Xylenes	13.0	0.0250	15.0	ND	86.6	70-130	0.632	26	
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/21/2025 1:41:00PM
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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 (2516037-BLK1)

Prepared: 04/15/25 Analyzed: 04/16/25

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	6.89		8.00		86.2	70-130			

LCS (2516037-BS1)

Prepared: 04/15/25 Analyzed: 04/18/25

Benzene	5.39	0.0250	5.00		108	70-130			
Ethylbenzene	5.31	0.0250	5.00		106	70-130			
Toluene	5.37	0.0250	5.00		107	70-130			
o-Xylene	5.24	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		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	70-130			

Matrix Spike (2516037-MS1)

Source: E504115-04

Prepared: 04/15/25 Analyzed: 04/16/25

Benzene	4.95	0.0250	5.00	ND	99.1	70-130			
Ethylbenzene	4.82	0.0250	5.00	ND	96.5	70-130			
Toluene	4.90	0.0250	5.00	ND	98.0	70-130			
o-Xylene	4.77	0.0250	5.00	ND	95.4	70-130			
p,m-Xylene	9.74	0.0500	10.0	ND	97.4	70-130			
Total Xylenes	14.5	0.0250	15.0	ND	96.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.91		8.00		86.4	70-130			

Matrix Spike Dup (2516037-MSD1)

Source: E504115-04

Prepared: 04/15/25 Analyzed: 04/16/25

Benzene	5.10	0.0250	5.00	ND	102	70-130	2.84	27	
Ethylbenzene	5.00	0.0250	5.00	ND	100	70-130	3.52	26	
Toluene	5.07	0.0250	5.00	ND	101	70-130	3.39	20	
o-Xylene	4.92	0.0250	5.00	ND	98.5	70-130	3.20	25	
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130	3.55	23	
Total Xylenes	15.0	0.0250	15.0	ND	100	70-130	3.44	26	
Surrogate: 4-Bromochlorobenzene-PID	6.87		8.00		85.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/21/2025 1:41:00PM

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 (2516034-BLK1) Prepared: 04/15/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.7	70-130			

LCS (2516034-BS2) Prepared: 04/15/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.07		8.00		101	70-130			

Matrix Spike (2516034-MS2) Source: E504110-03 Prepared: 04/15/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

Matrix Spike Dup (2516034-MSD2) Source: E504110-03 Prepared: 04/15/25 Analyzed: 04/15/25

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.1	70-130	13.9	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.2	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/21/2025 1:41:00PM
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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 (2516037-BLK1)

Prepared: 04/15/25 Analyzed: 04/16/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

LCS (2516037-BS2)

Prepared: 04/15/25 Analyzed: 04/16/25

Gasoline Range Organics (C6-C10)	38.4	20.0	50.0		76.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike (2516037-MS2)

Source: E504115-04

Prepared: 04/15/25 Analyzed: 04/16/25

Gasoline Range Organics (C6-C10)	40.2	20.0	50.0	ND	80.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2516037-MSD2)

Source: E504115-04

Prepared: 04/15/25 Analyzed: 04/16/25

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.8	70-130	5.35	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/21/2025 1:41:00PM

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 (2516048-BLK1)					Prepared: 04/15/25 Analyzed: 04/17/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.8		50.0		91.6	61-141			

LCS (2516048-BS1)					Prepared: 04/15/25 Analyzed: 04/17/25				
Diesel Range Organics (C10-C28)	244	25.0	250		97.4	66-144			
Surrogate: n-Nonane	49.0		50.0		98.1	61-141			

Matrix Spike (2516048-MS1)					Source: E504115-12		Prepared: 04/15/25 Analyzed: 04/17/25		
Diesel Range Organics (C10-C28)	500	25.0	250	33.1	187	56-156			M2
Surrogate: n-Nonane	48.7		50.0		97.4	61-141			

Matrix Spike Dup (2516048-MSD1)					Source: E504115-12		Prepared: 04/15/25 Analyzed: 04/17/25		
Diesel Range Organics (C10-C28)	303	25.0	250	33.1	108	56-156	49.1	20	R3
Surrogate: n-Nonane	49.1		50.0		98.3	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/21/2025 1:41:00PM

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 (2516057-BLK1)					Prepared: 04/16/25 Analyzed: 04/16/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.2		50.0		104	61-141			

LCS (2516057-BS1)					Prepared: 04/16/25 Analyzed: 04/16/25				
Diesel Range Organics (C10-C28)	280	25.0	250		112	66-144			
Surrogate: n-Nonane	52.5		50.0		105	61-141			

Matrix Spike (2516057-MS1)					Source: E504120-01		Prepared: 04/16/25 Analyzed: 04/16/25		
Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	56-156			
Surrogate: n-Nonane	54.2		50.0		108	61-141			

Matrix Spike Dup (2516057-MSD1)					Source: E504120-01		Prepared: 04/16/25 Analyzed: 04/16/25		
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	56-156	1.85	20	
Surrogate: n-Nonane	54.1		50.0		108	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/21/2025 1:41:00PM
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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 (2516047-BLK1)					Prepared: 04/15/25 Analyzed: 04/15/25				
Chloride	ND	20.0							
LCS (2516047-BS1)					Prepared: 04/15/25 Analyzed: 04/15/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2516047-MS1)					Source: E504115-05		Prepared: 04/15/25 Analyzed: 04/15/25		
Chloride	1110	20.0	250	863	100	80-120			
Matrix Spike Dup (2516047-MSD1)					Source: E504115-05		Prepared: 04/15/25 Analyzed: 04/15/25		
Chloride	1120	20.0	250	863	104	80-120	0.851	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/21/2025 1:41:00PM
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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 (2516054-BLK1)					Prepared: 04/16/25 Analyzed: 04/16/25				
Chloride	ND	20.0							
LCS (2516054-BS1)					Prepared: 04/16/25 Analyzed: 04/16/25				
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2516054-MS1)					Source: E504116-03		Prepared: 04/16/25 Analyzed: 04/16/25		
Chloride	257	20.0	250	ND	103	80-120			
Matrix Spike Dup (2516054-MSD1)					Source: E504116-03		Prepared: 04/16/25 Analyzed: 04/16/25		
Chloride	256	20.0	250	ND	102	80-120	0.230	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/21/25 13:41

- 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

Received by OCD: 5/27/2025 1:00:10 PM

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: Big Bucks Fed Com 501H				Address: 3122 National Parks Hwy		E504115		Job Number				23013-0002					
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
0942	4/14/25	Soil	1	FS 27-0'		1						+					
1144				42-1'		2						+					
0853				43-0'		3						+					
0944				44		4						+					
0915				98		5						+					
0902				114		6						+					
0901				121		7						+					
0900				122		8						+					
0847				125		9						+					
0850				124		10						+					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jhinkle@ensolum.com, rrai@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Jenna Hinkle and Rythum Rai and Thygnio Gonzalez																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Jenna Hinkle		4-14-25	1430	Michelle Gonzales		4-14-25	1015										
Michelle Gonzales		4-14-25	1430	JL M.		4-14-25	1630										
Jenna M.		4-14-25	2300	Caitlin Ma		4-15-25	1730										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

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Chain of Custody

Page 2 of 3

Client Information				Invoice Information		Lab Use Only		TAT				State											
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E504115		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: Big Bucks Fed Com 501H				Address: 3122 National Parks Hwy								<table border="1"> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>TX</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> </tr> </table>				NM	CO	UT	TX	X			
NM	CO	UT	TX																				
X																							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																			
Address: 3122 National Parks Hwy				Phone: 575-988-0055																			
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																			
Phone: 575-988-0055				Miscellaneous:																			
Email: agiovengo@ensolum.com																							
Sample Information										Analysis and Method				EPA Program									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA						
0927	4/11/2025	Soil	1	FS 134-0'		11						+											
0854				144-		12						+											
0905				155-		13						+											
0911				164-		14						+											
0920				182-		15						+											
1234				186-1'		16						+											
1330				191-1.5'		17						+											
0907				194-0'		18						+											
0915				206-0'		19						+											
0913				207-0'		20						+											
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jhinkle@ensolum.com, rrai@ensolum.com I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jenna Hinkle and Rythum Rai and Michelle Gonzales																							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4															
Jenna Hinkle				Michelle Gonzales		4-14-25	1015																
Michelle Gonzales		4-14-25	1430	John M.		4-14-25	1630																
John M.		4-14-25	2300	Caitlin Man		4-15-25	730																
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

Client Information								
Company: Matador Production Company								
Project: Big Bucks Fed Com 501H								
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# E504115		Job Number 23003.002		TAT				
1D		2D		3D Std				
				x				
Analysis and Method								
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005-TX	RCRA 8 Metals	EPA Program
								SDWA CWA RCRA
								Compliance Y or N
								PWSID #
								Remarks
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number		
0919	4/14/25	Soi	↓	F5208-0'		21		
0930	↓	↓	↓	211-0'		22		
0914	↓	↓	↓	216-0'		23		
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jhinkle@ensolum.com, rrai@ensolum.com								
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.								
Sampled by: Jenna Hinkle and Rythum Rai and Michelle Gonzales								
Relinquished by: (Signature) <i>Jenna Hinkle</i>		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gonzales</i>		Date	Time	Received by: (Signature) <i>[illegible]</i>		Date	Time	
Relinquished by: (Signature) <i>[illegible]</i>		Date	Time	Received by: (Signature) <i>Caitlin Mcn</i>		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: 4/15/2025 8:59:37AM

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:	04/15/25 07:30	Work Order ID:	E504115
Phone:	(972) 371-5200	Date Logged In:	04/14/25 15:20	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	04/21/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Big Bucks Fed Com 501H

Work Order: E504300

Job Number: 23003-0002

Received: 4/30/2025

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/8/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/8/25

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



Project Name: Big Bucks Fed Com 501H
Workorder: E504300
Date Received: 4/30/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/30/2025 8:00:00AM, under the Project Name: Big Bucks Fed Com 501H.

The analytical test results summarized in this report with the Project Name: Big Bucks Fed Com 501H 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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FS90-0.5'	15
FS91-0.5'	16
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Sample Summary

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
05/08/25 15:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS37-0.5'	E504300-01A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS44-0.5'	E504300-02A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS49-0.5'	E504300-03A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS69-0.5'	E504300-04A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS79-0.5'	E504300-05A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS85-0.5'	E504300-06A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS87-0.5'	E504300-07A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS88-0.5'	E504300-08A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS90-0.5'	E504300-09A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS91-0.5'	E504300-10A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS103-0.5'	E504300-11A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS135-0.5'	E504300-12A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS170-0.5'	E504300-13A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS171-0.5'	E504300-14A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS172-1'	E504300-15A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS174-0.5'	E504300-16A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS182-1'	E504300-17A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS184-0.5'	E504300-18A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
FS216-1'	E504300-19A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.



Case Narrative:

Project Name: {PROJECT}
Workorder: {WORKORDER}
Date Received: {RECEIVED}

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>
FS88-0.5'	E504300-08	DRO/ORO 8015

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: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS37-0.5'

E504300-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.1 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
	93.7 %	61-141		04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	2500	40.0	2	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS44-0.5'

E504300-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.6 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.9 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>	99.7 %	61-141		04/30/25	05/01/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	1550	20.0	1	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS49-0.5'

E504300-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
	95.3 %	61-141		04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	235	20.0	1	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS69-0.5'

E504300-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
	95.3 %	61-141		04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	537	20.0	1	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS79-0.5'

E504300-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
	96.6 %	61-141		04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	1120	20.0	1	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS85-0.5'

E504300-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
	97.4 %	61-141		04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	1950	20.0	1	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS87-0.5'

E504300-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
	94.5 %	61-141		04/30/25	05/01/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	1840	20.0	1	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS88-0.5'

E504300-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518056
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518056
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2519072
Diesel Range Organics (C10-C28)	454	25.0	1	05/07/25	05/08/25	
Oil Range Organics (C28-C36)	546	50.0	1	05/07/25	05/08/25	
<i>Surrogate: n-Nonane</i>						
	109 %	61-141		05/07/25	05/08/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518069
Chloride	2870	40.0	2	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS90-0.5'

E504300-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518056
Benzene	ND	0.0250	1	04/30/25	04/30/25	
Ethylbenzene	ND	0.0250	1	04/30/25	04/30/25	
Toluene	ND	0.0250	1	04/30/25	04/30/25	
o-Xylene	ND	0.0250	1	04/30/25	04/30/25	
p,m-Xylene	ND	0.0500	1	04/30/25	04/30/25	
Total Xylenes	ND	0.0250	1	04/30/25	04/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		04/30/25	04/30/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518056
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	04/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		04/30/25	04/30/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518065
Diesel Range Organics (C10-C28)	36.9	25.0	1	04/30/25	05/02/25	
Oil Range Organics (C28-C36)	59.4	50.0	1	04/30/25	05/02/25	
<i>Surrogate: n-Nonane</i>						
	95.9 %	61-141		04/30/25	05/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518069
Chloride	1610	20.0	1	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS91-0.5'

E504300-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518056
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518056
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518065
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/02/25	
<i>Surrogate: n-Nonane</i>						
	98.5 %	61-141		04/30/25	05/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518069
Chloride	664	20.0	1	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS103-0.5'

E504300-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/02/25	
<i>Surrogate: n-Nonane</i>						
	98.2 %	61-141		04/30/25	05/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	309	20.0	1	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS135-0.5'

E504300-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/02/25	
<i>Surrogate: n-Nonane</i>						
	96.3 %	61-141		04/30/25	05/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	2260	40.0	2	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS170-0.5'

E504300-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518056
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518056
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518065
Diesel Range Organics (C10-C28)	59.1	25.0	1	04/30/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/02/25	
<i>Surrogate: n-Nonane</i>						
	96.9 %	61-141		04/30/25	05/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518069
Chloride	789	20.0	1	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS171-0.5'

E504300-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	439	25.0	1	04/30/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/02/25	
<i>Surrogate: n-Nonane</i>						
	94.9 %	61-141		04/30/25	05/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	1230	20.0	1	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS172-1'

E504300-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.6 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/02/25	
<i>Surrogate: n-Nonane</i>						
	94.5 %	61-141		04/30/25	05/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	44.2	20.0	1	04/30/25	04/30/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS174-0.5'

E504300-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518056
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.4 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518056
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518065
Diesel Range Organics (C10-C28)	37.3	25.0	1	04/30/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/02/25	
<i>Surrogate: n-Nonane</i>						
	94.8 %	61-141		04/30/25	05/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518069
Chloride	604	20.0	1	04/30/25	05/01/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS182-1'

E504300-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/02/25	
<i>Surrogate: n-Nonane</i>						
	93.9 %	61-141		04/30/25	05/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	ND	20.0	1	04/30/25	05/01/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS184-0.5'

E504300-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518056
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518056
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518065
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/02/25	
<i>Surrogate: n-Nonane</i>						
	98.3 %	61-141		04/30/25	05/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518069
Chloride	1470	20.0	1	04/30/25	05/01/25	



Sample Data

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

Project Name: Big Bucks Fed Com 501H
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/8/2025 3:48:16PM

FS216-1'

E504300-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.4 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		04/30/25	05/01/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518065	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/02/25	
<i>Surrogate: n-Nonane</i>						
	92.9 %	61-141		04/30/25	05/02/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518069	
Chloride	ND	20.0	1	04/30/25	05/01/25	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/8/2025 3:48:16PM
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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 (2518056-BLK1)

Prepared: 04/30/25 Analyzed: 04/30/25

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	7.25		8.00		90.7	70-130			

LCS (2518056-BS1)

Prepared: 04/30/25 Analyzed: 04/30/25

Benzene	4.49	0.0250	5.00		89.8	70-130			
Ethylbenzene	4.49	0.0250	5.00		89.7	70-130			
Toluene	4.50	0.0250	5.00		90.0	70-130			
o-Xylene	4.45	0.0250	5.00		88.9	70-130			
p,m-Xylene	9.09	0.0500	10.0		90.9	70-130			
Total Xylenes	13.5	0.0250	15.0		90.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.9	70-130			

Matrix Spike (2518056-MS1)

Source: E504300-09

Prepared: 04/30/25 Analyzed: 04/30/25

Benzene	5.24	0.0250	5.00	ND	105	70-130			
Ethylbenzene	5.21	0.0250	5.00	ND	104	70-130			
Toluene	5.24	0.0250	5.00	ND	105	70-130			
o-Xylene	5.14	0.0250	5.00	ND	103	70-130			
p,m-Xylene	10.5	0.0500	10.0	ND	105	70-130			
Total Xylenes	15.7	0.0250	15.0	ND	105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.8	70-130			

Matrix Spike Dup (2518056-MSD1)

Source: E504300-09

Prepared: 04/30/25 Analyzed: 04/30/25

Benzene	5.25	0.0250	5.00	ND	105	70-130	0.0133	27	
Ethylbenzene	5.24	0.0250	5.00	ND	105	70-130	0.456	26	
Toluene	5.25	0.0250	5.00	ND	105	70-130	0.212	20	
o-Xylene	5.17	0.0250	5.00	ND	103	70-130	0.529	25	
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	0.494	23	
Total Xylenes	15.8	0.0250	15.0	ND	105	70-130	0.505	26	
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/8/2025 3:48:16PM

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 (2518056-BLK1) Prepared: 04/30/25 Analyzed: 04/30/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.1	70-130			

LCS (2518056-BS2) Prepared: 04/30/25 Analyzed: 04/30/25

Gasoline Range Organics (C6-C10)	39.3	20.0	50.0		78.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			

Matrix Spike (2518056-MS2) Source: E504300-09 Prepared: 04/30/25 Analyzed: 04/30/25

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

Matrix Spike Dup (2518056-MSD2) Source: E504300-09 Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	41.9	20.0	50.0	ND	83.8	70-130	3.36	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/8/2025 3:48:16PM

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 (2518065-BLK1)

Prepared: 04/30/25 Analyzed: 05/01/25

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 (2518065-BS1)

Prepared: 04/30/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	252	25.0	250		101	66-144			
Surrogate: n-Nonane	45.8		50.0		91.5	61-141			

Matrix Spike (2518065-MS1)

Source: E504300-12

Prepared: 04/30/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156			
Surrogate: n-Nonane	47.4		50.0		94.8	61-141			

Matrix Spike Dup (2518065-MSD1)

Source: E504300-12

Prepared: 04/30/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	56-156	2.15	20	
Surrogate: n-Nonane	46.8		50.0		93.7	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Big Bucks Fed Com 501H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/8/2025 3:48:16PM

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 (2519072-BLK1)					Prepared: 05/07/25 Analyzed: 05/07/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.7		50.0		105	61-141			

LCS (2519072-BS1)					Prepared: 05/07/25 Analyzed: 05/07/25				
Diesel Range Organics (C10-C28)	281	25.0	250		112	66-144			
Surrogate: n-Nonane	50.6		50.0		101	61-141			

Matrix Spike (2519072-MS1)					Source: E505078-01		Prepared: 05/07/25 Analyzed: 05/07/25		
Diesel Range Organics (C10-C28)	6010	25.0	250	6100	NR	56-156			M4
Surrogate: n-Nonane	53.0		50.0		106	61-141			

Matrix Spike Dup (2519072-MSD1)					Source: E505078-01		Prepared: 05/07/25 Analyzed: 05/07/25		
Diesel Range Organics (C10-C28)	5990	25.0	250	6100	NR	56-156	0.278	20	M4
Surrogate: n-Nonane	51.0		50.0		102	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Big Bucks Fed Com 501H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/8/2025 3:48:16PM
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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 (2518069-BLK1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Chloride	ND	20.0							
LCS (2518069-BS1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2518069-MS1)					Source: E504300-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Chloride	1420	20.0	250	1550	NR	80-120			M4
Matrix Spike Dup (2518069-MSD1)					Source: E504300-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Chloride	1220	20.0	250	1550	NR	80-120	14.6	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:	Big Bucks Fed Com 501H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/08/25 15:48

- 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: Big Bucks Fed Com 501H				Address: 3122 National Parks Hwy		E504300	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	BTX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA
17:20	4/28/2025	S	1	FS37 - 0.5'		1								x		2.1		
17:17	4/28/2025	S	1	FS44 - 0.5'		2								x		1.9		
16:33	4/28/2025	S	1	FS49 - 0.5'		3								x		1.5		
12:46	4/28/2025	S	1	FS69 - 0.5'		4								x		1.0		
11:42	4/28/2025	S	1	FS79 - 0.5'		5								x		1.1		
11:45	4/28/2025	S	1	FS85 - 0.5'		6								x		2.6		
13:57	4/28/2025	S	1	FS87 - 0.5'		7								x		2.2		
12:50	4/28/2025	S	1	FS88 - 0.5'		8								x		2.1		
13:12	4/28/2025	S	1	FS90 - 0.5'		9								x		3.0		
14:00	4/28/2025	S	1	FS91 - 0.5'		10								x		3.1		
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, oaderinto@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: Oluwale Aderinto																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	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		
Oluwale Aderinto		4/29/25	08:15	Michelle Gonzales		4-29-25	0815	Michelle Gonzales		4-29-25	1700	Michelle Gonzales		4-29-25	1700			
Michelle Gonzales		4-29-25	1700	Michelle M.		4-29-25	2330	Michelle M.		4-29-25	800	Michelle M.		4-29-25	800			
Michelle M.		4-29-25	2330	Cathy M.		4-30-25		Cathy M.		4-30-25		Cathy M.		4-30-25				
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: Big Bucks Fed Com 501H				Address: 3122 National Parks Hwy		E504300	23008-0002				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																		
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
11:39	4/28/2025	S	1	FS103 - 0.5'		11								X				
17:51	4/28/2025	S	1	FS135 - 0.5'		12								X				
14:44	4/28/2025	S	1	FS170 - 0.5'		13								X				
17:53	4/28/2025	S	1	FS171 - 0.5'		14								X				
14:46	4/28/2025	S	1	FS172 - 1'		15								X				
18:32	4/28/2025	S	1	FS174 - 0.5'		16								X				
16:28	4/28/2025	S	1	FS182 - 1'		17								X				
16:30	4/28/2025	S	1	FS184 - 0.5'		18								X				
18:34	4/28/2025	S	1	FS216 - 1'		19								X				
Additional Instructions: Please CC: cburton@ensolum.com, agiovenago@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, oaderinto@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: Oluwale Aderinto																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N										
Oluwale Aderinto		4/29/25	08:15	Michelle Gonzales		4-29-25	0815											
Michelle Gonzales		4-29-25	1700	JL J.		4-29-25	1700											
JL J.		4-29-25	2330	Cuth Ma		4-30-25	800											
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: 4/30/2025 10:47:10AM

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:	04/30/25 08:00	Work Order ID:	E504300
Phone:	(972) 371-5200	Date Logged In:	04/29/25 15:17	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	05/06/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/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.

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: Big Bucks Fed Com 501H				Address: 3122 National Parks Hwy		EP504300	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	BTX by 8021	VOC by 8260	Chloride 300.0	TCQ 1005 - TX	RCRA 8 Metals	BGDQC - NM	BGDQC - TX	SDWA	CWA	RCRA
17:20	4/28/2025	S	1	FS37 - 0.5'		1								x		2.1		Client
17:17	4/28/2025	S	1	FS44 - 0.5'		2								x		1.9		Wants to return
16:33	4/28/2025	S	1	FS49 - 0.5'		3								x		1.5		Sample #8.
12:46	4/28/2025	S	1	FS69 - 0.5'		4								x		1.0		NS 5-8-25
11:42	4/28/2025	S	1	FS79 - 0.5'		5								x		1.1		
11:45	4/28/2025	S	1	FS85 - 0.5'		6								x		2.6		
13:57	4/28/2025	S	1	FS87 - 0.5'		7								x		2.2		
12:50	4/28/2025	S	1	FS88 - 0.5'		8	X							x		2.1		
13:12	4/28/2025	S	1	FS90 - 0.5'		9								x		3.0		
14:00	4/28/2025	S	1	FS91 - 0.5'		10								x		3.1		
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, oaderinto@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: Oluwale Aderinto																		
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: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		

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: Big Bucks Fed Com 501H				Address: 3122 National Parks Hwy		E504300	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	
11:39	4/28/2025	S	1	FS103 - 0.5'		11								X					
17:51	4/28/2025	S	1	FS135 - 0.5'		12								X					
14:44	4/28/2025	S	1	FS170 - 0.5'		13								X					
17:53	4/28/2025	S	1	FS171 - 0.5'		14								X					
14:46	4/28/2025	S	1	FS172 - 1'		15								X					
18:32	4/28/2025	S	1	FS174 - 0.5'		16								X					
16:28	4/28/2025	S	1	FS182 - 1'		17								X					
16:30	4/28/2025	S	1	FS184 - 0.5'		18								X					
18:34	4/28/2025	S	1	FS216 - 1'		19								X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, oaderinto@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: Oluwale Aderinto																			
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							
Oluwale Aderinto		4/29/25		0815		Michelle Gonzales		4.29.25		0815									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Michelle Gonzales		4.29.25		1700		J.W. Jr.		4.29.25		1700									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
J.W. Jr.		4.29.25		2330		Caitlin Ma		4.30.25		800									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
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APPENDIX E

NMOCD Correspondence

From: [Velez, Nelson, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: [Chad Hamilton](#); [Jason Touchet](#); [Bratcher, Michael, EMNRD](#)
Subject: Re: [EXTERNAL] Confirmation Sampling Variance - Big Bucks Fed Com 501 - Incident Number nAPP2117649736
Date: Thursday, March 20, 2025 2:10:50 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[Outlook-tgroprur.png](#)

[**EXTERNAL EMAIL**]

Good afternoon Ashley,

Thank you for the inquiry. Your alternative sampling plan request not to exceed 400 square feet (ft.2) from the excavation floor and 200 ft.2 from the excavation sidewalls for each five (5) point composite per 19.15.29.12D (1b) NMAC is approved. All other provisions addressed in 19.15.29.12D NMAC remain in effect.

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

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: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Thursday, March 20, 2025 1:05 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Chad Hamilton <chamilton@ensolum.com>; Jason Touchet <jason.touchet@matadorresources.com>
Subject: [EXTERNAL] Confirmation Sampling Variance - Big Bucks Fed Com 501 - Incident Number nAPP2117649736

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

Hello,

Matador Production Company (Matador) is requesting a confirmation sampling variance at the Big Bucks Fed Com 501 (Site). On June 25, 2021, a leaking minion tank resulted in the release of approximately 20 barrels (bbls) of produced water onto the caliche pad; 15 bbls were recovered from the release area. Ascent Energy, LLC reported the release to the New Mexico Oil Conservation Division (NMOCD) and subsequently the release was assigned (Incident Number nAPP2117649736). Matador Production Company acquired Ascent Energy, LLC and has since assumed responsibility for remediation of the subject matter release. The release impacted an area approximately 90,725 square feet (sq. ft.) in size on Federal Land managed by the Bureau of Land Management; the entire release remained on-pad. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) soil boring, CP-02032-POD1, located within a half-mile radius of the Site. The well had a reported depth to groundwater greater than 105 feet below ground surface (bgs) and a total depth of 105 feet bgs. A desktop review for potential site receptors has been completed for this Site and the site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine (see Figure 1). The closest significant watercourse is an intermittent dry wash located approximately 0.54 miles southwest of the Site. The Site is not underlain by unstable geology (low potential karst designation area) and there are no indicators of surface or subsurface karst features observed at or around the Site. Based on the results of the desktop review, the following Site Closure Criteria will apply: 10 mg/kg benzene, 50 mg/kg BTEX, 1,000 mg/kg TPH – Gasoline Range Organics (GRO) and TPH – Diesel Range Organics (DRO), 2,500 mg/kg Total TPH and 20,000 mg/kg chloride.

Lateral and vertical delineation sampling has been completed in accordance with the strictest Closure Criteria per NMOCD Table I (see Figure 2) and all 21 discrete delineation soil sample locations were in compliance with the Site Closure Criteria at ground surface (see Table 1). Matador would like to request a confirmation sampling variance for excavation floor samples collected every 400 sq. ft. from the floor of the excavation and every 200 sq. ft. from the sidewalls of the excavation where applicable. Matador is scheduled to begin confirmation soil sampling activities at the Site on March 24, 2025, and intends to remove any impacts that exceed the Site Closure Criteria via mechanical equipment. Matador will submit a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC following excavation and confirmation sampling activities. Due to the size of the impacted area, and a regional depth to groundwater greater than 105 ft bgs, Matador believes this *variance request* will provide equal or better protection of public health, the environment. Matador respectfully requests approval for this *variance request* associated with Incident Number (nAPP2117649736).

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

“Your authenticity is your superpower.” – Unknown

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 444555

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 444555
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2117649736
Incident Name	NAPP2117649736 BIG BUCKS FED COM 501 @ 30-025-47064
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-47064] BIG BUCKS FEDERAL COM #501H

Location of Release Source	
Site Name	BIG BUCKS FED COM 501
Date Release Discovered	06/25/2021
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	90,760
What is the estimated number of samples that will be gathered	227
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/25/2025
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	32.500421,-103.621775

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 444555

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 444555
	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.	3/21/2025

Sante Fe Main Office
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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 444558

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 444558
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2117649736
Incident Name	NAPP2117649736 BIG BUCKS FED COM 501 @ 30-025-47064
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-47064] BIG BUCKS FEDERAL COM #501H

Location of Release Source	
Site Name	BIG BUCKS FED COM 501
Date Release Discovered	06/25/2021
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	90,760
What is the estimated number of samples that will be gathered	227
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/27/2025
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	32.500421,-103.621775

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 444558

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 444558
	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.	3/21/2025

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

General Information
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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 445766

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 445766
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2117649736
Incident Name	NAPP2117649736 BIG BUCKS FED COM 501 @ 30-025-47064
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-47064] BIG BUCKS FEDERAL COM #501H

Location of Release Source	
Site Name	BIG BUCKS FED COM 501
Date Release Discovered	06/25/2021
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	90,760
What is the estimated number of samples that will be gathered	227
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/28/2025
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	32.500421,-103.621775

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 445766

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 445766
	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.	3/26/2025

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 449854

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 449854
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2117649736
Incident Name	NAPP2117649736 BIG BUCKS FED COM 501 @ 30-025-47064
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-47064] BIG BUCKS FEDERAL COM #501H

Location of Release Source	
Site Name	BIG BUCKS FED COM 501
Date Release Discovered	06/25/2021
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	34,400
What is the estimated number of samples that will be gathered	86
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/10/2025
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	32.500421,-103.621775

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

General Information
Phone: (505) 629-6116

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 449854

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 449854
	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.	4/8/2025

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QUESTIONS

Action 449863

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 449863
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2117649736
Incident Name	NAPP2117649736 BIG BUCKS FED COM 501 @ 30-025-47064
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-47064] BIG BUCKS FEDERAL COM #501H

Location of Release Source	
Site Name	BIG BUCKS FED COM 501
Date Release Discovered	06/25/2021
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	34,400
What is the estimated number of samples that will be gathered	86
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/11/2025
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	32.500421,-103.621775

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CONDITIONS

Action 449863

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 449863
	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.	4/8/2025

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QUESTIONS

Action 455134

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 455134
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2117649736
Incident Name	NAPP2117649736 BIG BUCKS FED COM 501 @ 30-025-47064
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-47064] BIG BUCKS FEDERAL COM #501H

Location of Release Source	
Site Name	BIG BUCKS FED COM 501
Date Release Discovered	06/25/2021
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	7,600
What is the estimated number of samples that will be gathered	19
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/28/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Oluwale Aderinto (505) 617-1363
Please provide any information necessary for navigation to sampling site	32.500421,-103.621775

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CONDITIONS

Action 455134

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 455134
	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.	4/24/2025

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QUESTIONS

Action 455136

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 455136
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2117649736
Incident Name	NAPP2117649736 BIG BUCKS FED COM 501 @ 30-025-47064
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-47064] BIG BUCKS FEDERAL COM #501H

Location of Release Source	
Site Name	BIG BUCKS FED COM 501
Date Release Discovered	06/25/2021
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	7,600
What is the estimated number of samples that will be gathered	19
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/29/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Oluwale Aderinto (505) 617-1363
Please provide any information necessary for navigation to sampling site	32.500421,-103.621775

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CONDITIONS

Action 455136

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 455136
	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.	4/24/2025

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QUESTIONS

Action 467444

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 467444
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2117649736
Incident Name	NAPP2117649736 BIG BUCKS FED COM 501 @ 30-025-47064
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-47064] BIG BUCKS FEDERAL COM #501H

Location of Release Source

Please answer all the questions in this group.

Site Name	BIG BUCKS FED COM 501
Date Release Discovered	06/25/2021
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 20 BBL Recovered: 15 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 467444

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 467444
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 05/27/2025
--	--

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QUESTIONS, Page 3

Action 467444

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 467444
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

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

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride (EPA 300.0 or SM4500 Cl B)	12300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	20170
GRO+DRO (EPA SW-846 Method 8015M)	6070
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	04/09/2025
On what date will (or did) the final sampling or liner inspection occur	04/28/2025
On what date will (or was) the remediation complete(d)	04/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	8000
What is the estimated volume (in cubic yards) that will be reclaimed	103
What is the estimated surface area (in square feet) that will be remediated	90724
What is the estimated volume (in cubic yards) that will be remediated	393

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

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

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QUESTIONS, Page 4

Action 467444

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 467444
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	<i>Not answered.</i>
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Lea Land, LLC
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 05/27/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 467444

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 467444
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 467444

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 467444
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	455136
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/29/2025
What was the (estimated) number of samples that were to be gathered	19
What was the sampling surface area in square feet	7600

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	90724
What was the total volume (cubic yards) remediated	393
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	8000
What was the total volume (in cubic yards) reclaimed	103
Summarize any additional remediation activities not included by answers (above)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 05/27/2025
--	--

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QUESTIONS, Page 7

Action 467444

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 467444
	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 467444

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 467444
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops. Release resolved.	7/14/2025