



November 17, 2023

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
Barry Miller State Com #201H
Incident Numbers NAPP2319455228 & NAPP2319663541
Eddy County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Barry Miller State Com #201H (Site) in Unit D, Section 16, Township 22 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacted soil from two produced water releases at the Site. Based on the excavation activities and analytical results from the soil sampling events, Matador is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Numbers NAPP2319455228 and NAPP2319663541.

BACKGROUND

The Site is located in Eddy County, New Mexico (32.393514° N, 104.100114° W) and is associated with oil and gas exploration and production operations on New Mexico State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On July 12, 2023, a 12-inch coupling on a water transfer pipeline header failed and resulted in the release of 110 barrels (bbls) of produced water into an off-pad pasture area, which were not able to be recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on July 13, 2023. The release was assigned Incident Number NAPP2319455228.

On July 14, 2023, a pump was activated while a valve on the lay-flat line was still shut, which caused a line failure. This failure resulted in the release of 20.85 bbls of produced water into the adjacent off-pad pasture area, roughly 30 feet east of the initial release. A vacuum truck was immediately dispatched to the Site for the second spill to recover free-standing fluids; approximately 8 bbls of produced water were recovered. Matador reported the release to the NMOCD on a Form C-141 on July 27, 2023. The release was assigned Incident Number NAPP2319663541.

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 for both releases. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be 46 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C 04702 POD2, located approximately 1.43 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 46 feet bgs and a total depth of 55 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 in Figure 1. The referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a seasonal wetland, located approximately 1,130 feet 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 (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On July 21, 2023, Site assessment activities were conducted to evaluate the initial release extent based on information provided on the Form C-141 and visual observations. Six preliminary assessment soil samples (SS01 through SS06) were collected around the initial release extent at ground surface, to assess the lateral extent of the release. Two boreholes (BH01 and BH02) were collected via hand auger to depths of 4 feet and 3 feet bgs, respectively, to determine the vertical extent of the release. Delineation soil samples were field screened for chloride using either Hach® chloride QuanTab® test strips or the MOHR method titration.

On August 3 and August 30, 2023, Site assessment activities were conducted to evaluate the secondary release extent based on information provided on the Form C-141 and visual observations. One preliminary assessment soil sample (SS07) was collected around the secondary release extent at ground surface, to assess the lateral extent of the release. One borehole (BH03) was collected via hand auger to a depth of 1-foot bgs to determine the vertical extent of the release. Delineation soil samples were field screened for chloride and results were logged on a lithologic soil sampling log, which is included in Appendix C. The release extents and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from delineation soil samples SS01 through SS06 and SS07A and potholes BH01, BH02 and BH03 (Figure 2), collected at 1-foot bgs, indicated all COC concentrations were in compliance with Site Closure Criteria. Sample BH03, collected at 0 feet bgs, and SS07, collected at 0 feet bgs, were not in compliance with the Closure Criteria. As a result, impacted soil was identified and appeared necessary to remediate through removal during excavation activities. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix F.

EXCAVATION SOIL SAMPLING ACTIVITIES

Prior to beginning excavation activities at the Site, an archaeological survey was completed by Beaver Creek Archeology. The survey determined that the release areas were negative for cultural properties, and as such, the Cultural Properties Protection Rule (CPP) has been followed (see Appendix D).

Between October 26 and October 31, 2023, Ensolum personnel were at the Site to oversee excavation activities. Impacted soil was excavated from the release area as indicated by visible staining, laboratory analytical results for the preliminary soil samples, and field screening results for delineation soil samples. Excavation activities were performed using a backhoe and transport vehicles. The excavation occurred in the pasture area, west of an equipment pad. To direct excavation activities, soil was screened for volatile aromatic hydrocarbons and chloride utilizing a PetroFLAG[®] soil analyzer system and MOHR method titration, respectively. The excavation was completed to depths ranging from 1-foot to 2.5 feet bgs. Photographic documentation of the excavation activities is included in Appendix E.

Following removal of impacted soil, 5-point composite soil samples were collected at least one sample every 200 square feet from the sidewalls and 400 square feet from the floor of the excavation, per an approved sampling variance by the NMOCD. 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 SW01 through SW07 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2.5 feet bgs. Composite soil sample SW08 was collected from the sidewall of the electric pole buffer zone at a depth of 0.5 feet bgs. Composite soil samples FS01 through FS43 were collected from the floor of the excavation at depths ranging from 1-foot to 2.5 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented in Figure 3.

The excavation area measured approximately 17,200 square feet. A total of approximately 640 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation sidewall samples SW01 through SW08, collected between 0.5 feet and 2.5 feet bgs, and excavation floor samples FS01 through FS43 (Figure 3), collected at depths ranging from 1-foot to 2.5 feet bgs, indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 2 and laboratory analytical reports are included as Appendix F.

RECLAMATION PLAN

The releases occurred off pad in the pasture and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off pad area that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 1-foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release include: Reeves-Gypsum land complex, 0 to 3 percent slopes according to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey completed on November 16, 2023;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be: BLM seed mix #3;
- The seed mixture will be distributed with either a push broadcaster seed spreader, tractor operated broadcast seed spreader, drill seeding, or other means;
- Application of the seed mixutre will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;
- Erosion control management is not anticipated, but if needed, will potentially include:
 - The placement of waddles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation has already been completed;
- Seeding is anticipated to be completed in the Spring when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion;
- Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address July 2023 releases of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria per

NMOCD Table I. Based on the soil sample analytical results, no further remediation was required. Reclamation will be completed as described above.

Following remediation efforts, 43 composite confirmation soil samples (FS01 through FS43) and eight composite confirmation sidewall samples (SW01 though SW08) were collected. All samples were in compliance with Site Closure Criteria.

Based on horizontal and vertical delineation sampling, depth to groundwater less than 50 feet bgs, and confirmation soil sample laboratory analytical results in compliance with their respective Closure Criteria, Matador believes these remedial actions are protective of human health, the environment, and groundwater. As such, Matador respectfully requests closure for Incident Numbers NAPP2319455228 & NAPP2319663541.

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
Senior Engineer

Daniel R Moir, P.G.
Senior Managing Geologist

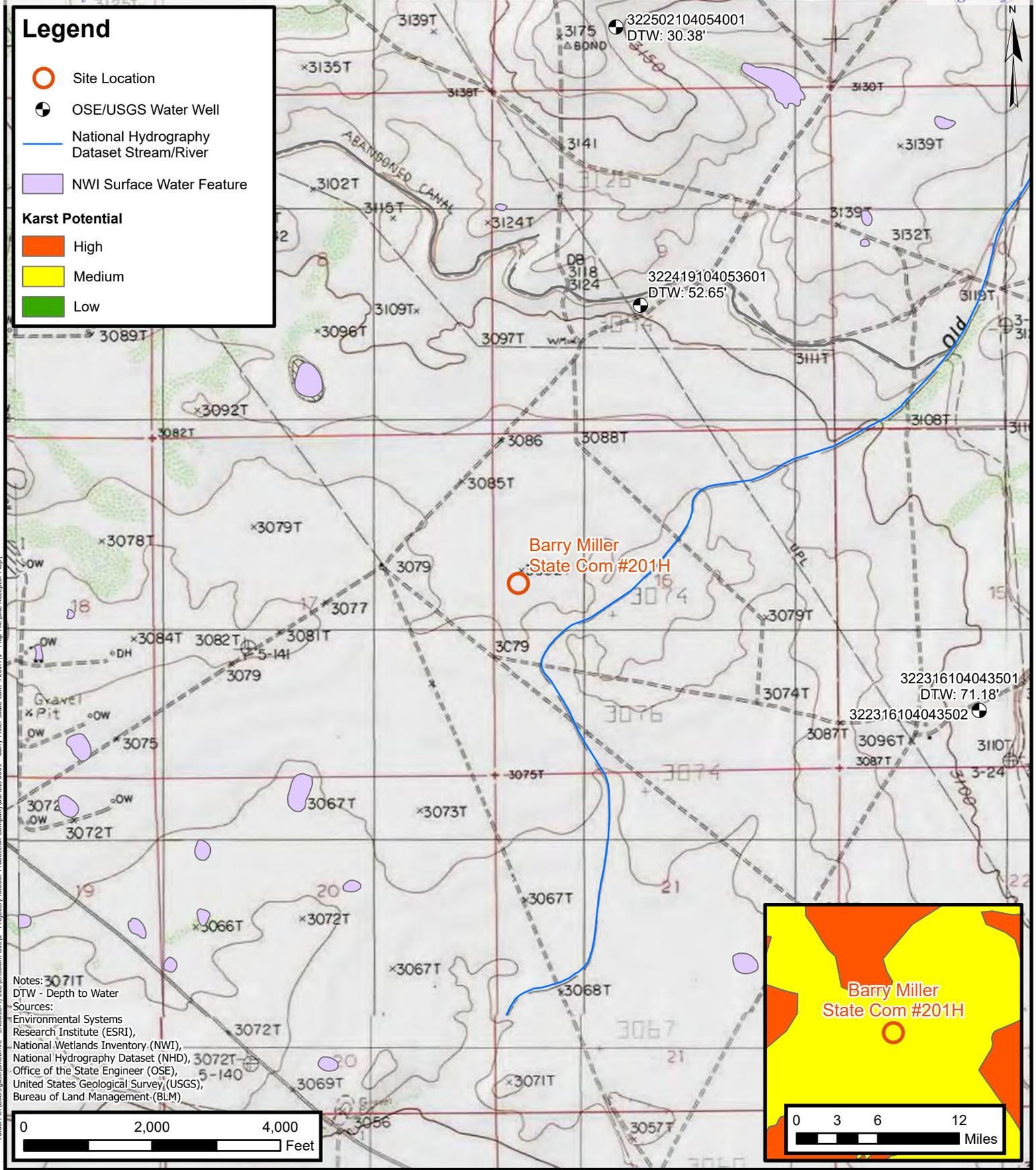
cc: Clinton Talley, Matador Resources
NMSLO

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)
- Table 2 Soil Sample Analytical Results (Excavation Floor)
- Table 3 Soil Sample Analytical Results (Excavation Sidewall)
- Appendix A Forms C-141
- Appendix B Referenced Wells
- Appendix C Lithologic Soil Sampling Logs
- Appendix D NMSLO Cultural Resources Cover Sheet
- Appendix E Photographic Log
- Appendix F Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix G Regulatory Correspondence



FIGURES

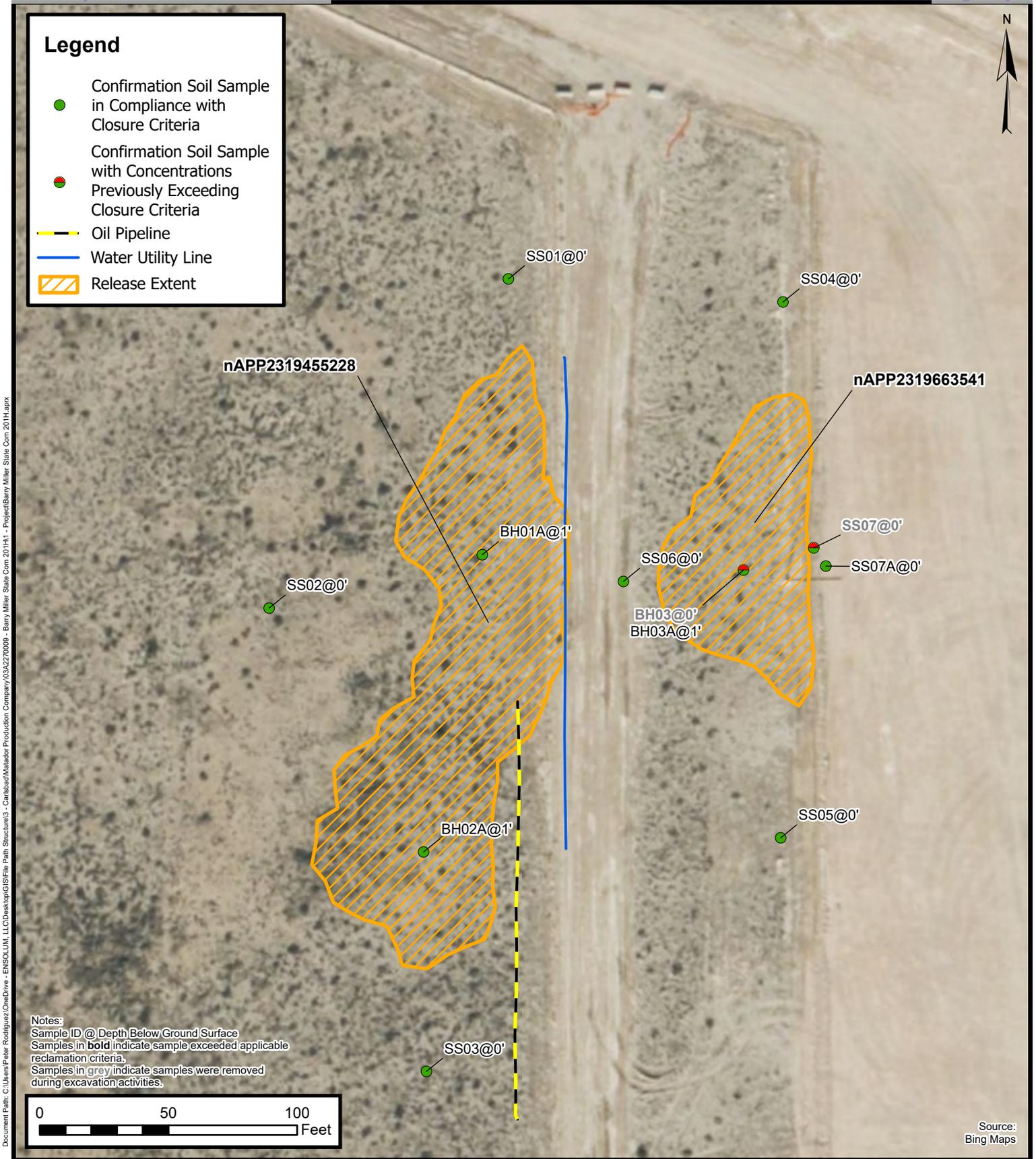


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Site Receptor Map
 Matador Production Company
 Barry Miller State Com #201H
 Incident Number: nAPP2319455228 & NAPP2319663541
 Unit D, Section 16, T 22S, R 28E
 Eddy County, New Mexico

FIGURE
1



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Delineation Soil Sample Locations

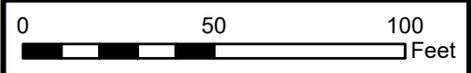
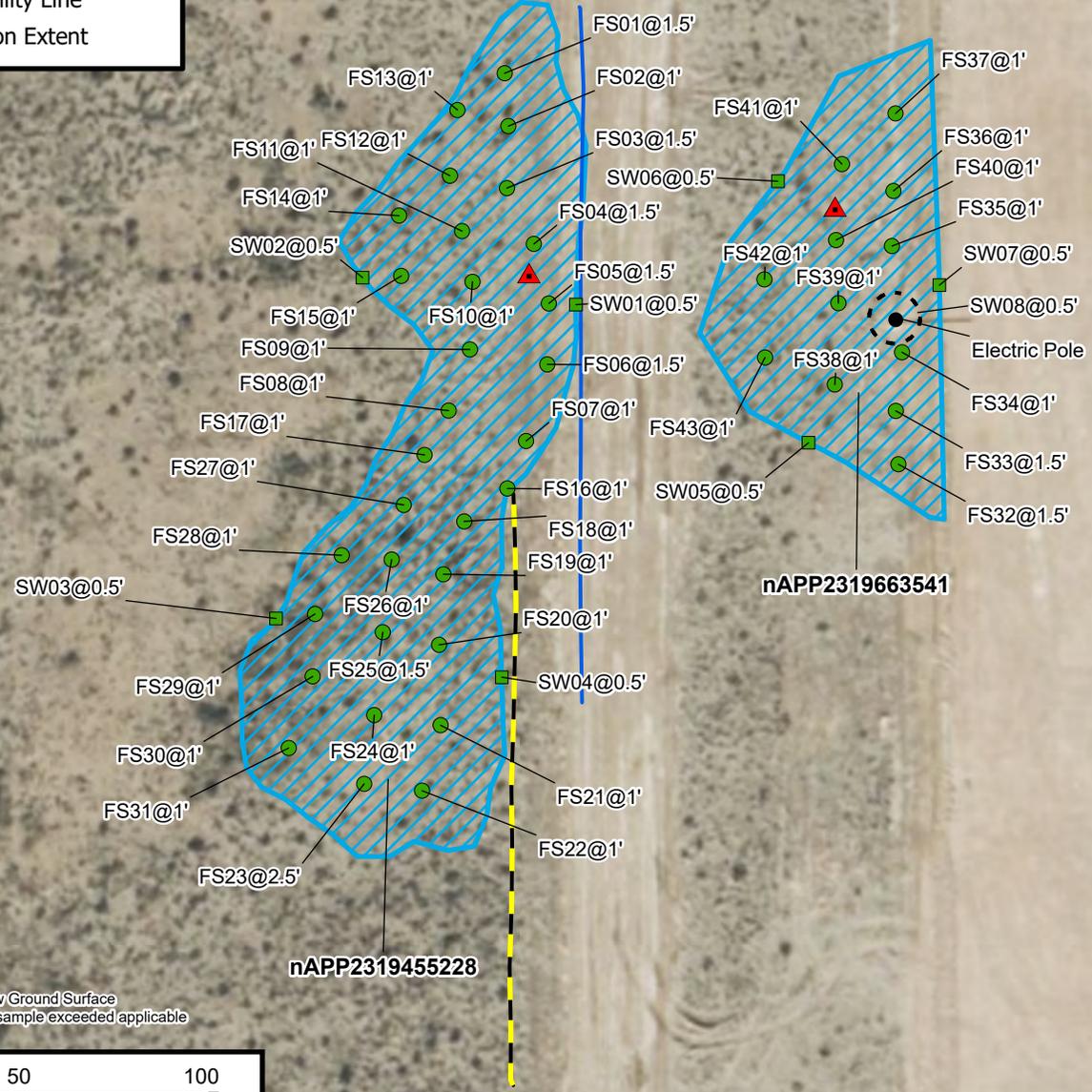
Matador Production Company
 Barry Miller State Com #201H
 Incident Number: nAPP2319455228 & nAPP2319663541
 Unit E, Section 16, Township 22S, Range 28E
 Eddy County, New Mexico

FIGURE
2

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Legend

- ▲ Point of Release
- Confirmation Soil Sample in Compliance with Closure Criteria
- Confirmation Sidewall Sample in Compliance with Closure Criteria
- Electric Pole
- Electric Pole Buffer Zone
- Oil Pipeline
- Water Utility Line
- Excavation Extent



Source: Bing Maps

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Confirmation Soil Sample Locations

Matador Production Company
Barry Miller State Com #201H
Incident Number: nAPP2319455228 & nAPP2319663541
Unit E, Section 16, Township 22S, Range 28E
Eddy County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Matador Production Company
 Barry Miller State Com 201H
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCDC Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	7/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS02	7/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS03	7/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS04	7/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS05	7/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
SS06	7/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	245
SS07	8/3/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	1,900
SS07A	9/1/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	199
BH01A	7/21/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	394
BH02A	7/21/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
BH03	8/3/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	4,740
BH03A	8/3/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	409

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCDC: 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 NMOCDC 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
 Matador Production Company
 Barry Miller State Com 201H
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Soil Samples										
FS01	10/30/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS02	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS03	10/30/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS04	10/30/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS05	10/30/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS06	10/30/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS07	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS08	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS09	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS10	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS11	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS12	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS13	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS14	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS15	10/27/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
FS16	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	207
FS17	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS18	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS19	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS20	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS21	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS22	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS23	10/30/2023	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	593



TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Matador Production Company
 Barry Miller State Com 201H
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Soil Samples										
FS24	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS25	10/30/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS26	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS27	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS28	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS29	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	477
FS30	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	316
FS31	10/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	466
FS32	10/31/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS33	10/31/2023	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS34	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS35	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS36	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS37	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS38	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS39	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS40	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS41	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS42	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
FS43	10/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

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

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DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
 Matador Production Company
 Barry Miller State Com 201H
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Sidewall Soil Samples										
SW01	10/27/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
SW02	10/27/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400
SW03	10/30/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW04	10/30/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW05	10/31/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW06	10/31/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	298
SW07	10/31/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200
SW08	10/30/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<200

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Forms C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2319455228
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Matador Production Company	OGRID 228937
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # (assigned by OCD)
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

Location of Release Source

Latitude 32.393514 Longitude -104.100114
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Barry Miller State Com #201H	Site Type Oil Well
Date Release Discovered 07/12/2023	API# (if applicable) 30-015-53356

Unit Letter	Section	Township	Range	County
D	16	22S	28E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 110 bbls	Volume Recovered (bbls) 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: 12" coupling on water transfer pipeline header failed. The spill impacted an area approximately 12, 292 square ft off-pad.

$$BBL\ Estimate = \left(\text{Saturated Soil Volume } (ft^3) / 4.21 \left(\frac{ft^3}{bbl} \text{ equivalent} \right) \right) \times \text{Estimated Soil Porosity } (\%) + \text{Recovered Fluids } (bbl)$$

$$((12,292 \times 0.083) / 4.21) \times 0.45 = 109.489 \text{ bbls}$$

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2319455228
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
---	--

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
--

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name: <u>Clint Talley</u>	Title: <u>EHS Supervisor</u>
Signature: <u><i>Clint Talley</i></u>	Date: <u>07/13/2023</u>
email: <u>Clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>

OCD Only

Received by: Shelly Wells Date: 7/14/2023

Incident ID	nAPP2319455228
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	__46__ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	nAPP2319455228
District RP	
Facility ID	
Application ID	

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.

Printed Name: Clint Talley

Title: EHS Supervisor

Signature: *Clint Talley*

Date: 07/25/2023

email: Clinton.talley@matadorresources.com

Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells

Date: 11/20/2023

Incident ID	nAPP2319455228
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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.

Printed Name: Clint Talley

Title: EHS Supervisor

Signature: *Clint Talley*

Date: 07/25/2023

email: Clinton.talley@matadorresources.com

Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells

Date: 11/20/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS
 Action 239985

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 239985
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	7/14/2023

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2319663541
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Matador Production Company	OGRID 228937
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # (assigned by OCD) nAPP2319663541
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

Location of Release Source

Latitude 32.393514 Longitude -104.100114
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Barry Miller State Com #201H	Site Type Oil Well
Date Release Discovered 07/14/2023	API# (if applicable) 30-015-53356

Unit Letter	Section	Township	Range	County
D	16	22S	28E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 20.85 bbls	Volume Recovered (bbls) 8 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A pump was activated while a valve on the lay-flat line was still shut causing the line to burst. The spill impacted an area approximately 4, 682 square ft off-pad.

$$BBL\ Estimate = \left(\text{Saturated Soil Volume } (ft^3) / 4.21 \left(\frac{ft^3}{bbl} \text{ equivalent} \right) \right) \times \text{Estimated Soil Porosity } (\%) + \text{Recovered Fluids } (bbl)$$

$$((4,682 \times 0.0416) / 4.21) \times 0.45 = 20.85 \text{ bbls}$$

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	nAPP2319663541
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
---	--

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
--

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name: <u>Clint Talley</u>	Title: <u>EHS Supervisor</u>
Signature: <u></u>	Date: <u>07/25/2023</u>
email: <u>Clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>

OCD Only

Received by: Shelly Wells Date: 7/27/2023

Incident ID	nAPP2319663541
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	__46__ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	nAPP2319663541
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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.

Printed Name: Clint Talley

Title: EHS Supervisor

Signature: *Clint Talley*

Date: 07/25/2023

email: Clinton.talley@matadorresources.com

Telephone: 337-319-8398

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 245063

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 245063
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	7/27/2023



APPENDIX B
Referenced Wells



New Mexico Office of the State Engineer Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04702 POD2	2	1	4	18	22S	28E	582367	3584016 

Driller License: 1456	Driller Company: WHITE DRILLING COMPANY		
Driller Name: JOHN W. WHITE			
Drill Start Date: 02/13/2023	Drill Finish Date: 02/16/2023	Plug Date: 02/16/2023	
Log File Date: 03/06/2023	PCW Rcv Date:	Source: Shallow	
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size: 2.00	Depth Well: 55 feet	Depth Water: 46 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	44	50	Sandstone/Gravel/Conglomerate

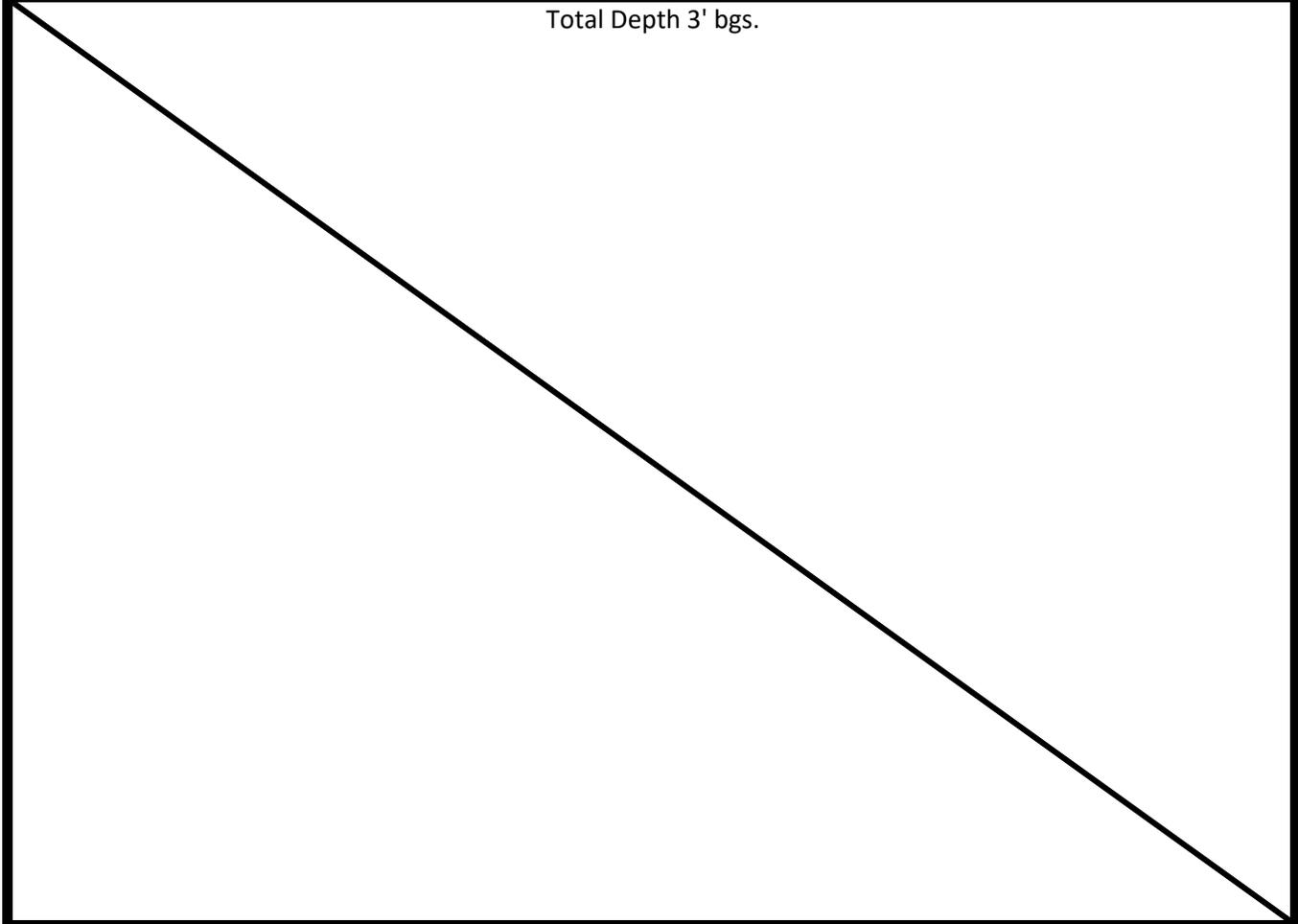
Casing Perforations:	Top	Bottom
	30	55

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



APPENDIX C

Lithologic Soil Sampling Logs

		Sample Name: BH01		Date: 07/21/2023					
		Site Name: Barry Miller State Com #201H							
		Incident Number: nAPP2319455228							
		Job Number: 03A2270009							
LITHOLOGIC / SOIL SAMPLING LOG									
Coordinates: 32.393222, -104.100274			Logged By: Chad Hamilton		Method: Hand Auger				
			Hole Diameter: 3"		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	
Dry		0		BH01	0.5'	0	SM	Silty, well sorted, no odor, slight staining, tan to white in color	
Dry		0		BH01A	1'	1	SM	Silty, well sorted, no odor, no staining, tan to white in color	
Dry		0		BH01B	2'	2	SM	SAA	
Dry		0		BH01C	3'	3	SM	SAA	
Total Depth 3' bgs.									

		Sample Name: BH02		Date: 07/21/2023				
		Site Name: Barry Miller State Com #201H						
		Incident Number: nAPP2319455228						
		Job Number: 03A2270009						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.392905, -104.100352			Logged By: Chad Hamilton		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 1'			
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
Dry		0		BH02	0.5'	0	SM	Silty, well sorted, no odor, no staining, tan to white in color
Dry		0		BH02A	1'	1	SM	
Total Depth 1' bgs.								

					Sample Name: BH03		Date: 08/03/2023	
					Site Name: Barry Miller State Com #201H			
					Incident Number: nAPP2319455228			
					Job Number: 03A2270009			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Chad Hamilton		Method: Hand Auger	
Coordinates: 32.39320, -104.09995					Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with Chloride Titration MOHR Method. Chloride test performed with 1:1 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
Dry		0		BH03	0.5'	0	SM	Silty, well sorted, no odor, no staining, tan to white in color
Dry		0		BH03	1'	1	SM SAA	
Total Depth 1' bgs.								



APPENDIX D

NMSLO Cultural Resources Cover Sheet



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22



APPENDIX E

Photographic Log



Photographic Log

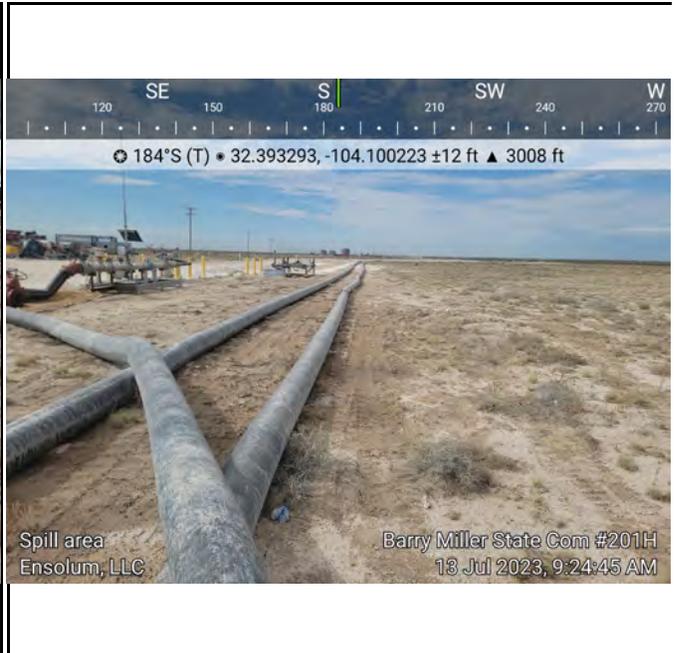
Matador Production Company

Barry Miller State Com 201H

nAPP2319455228 & nAPP2319663541



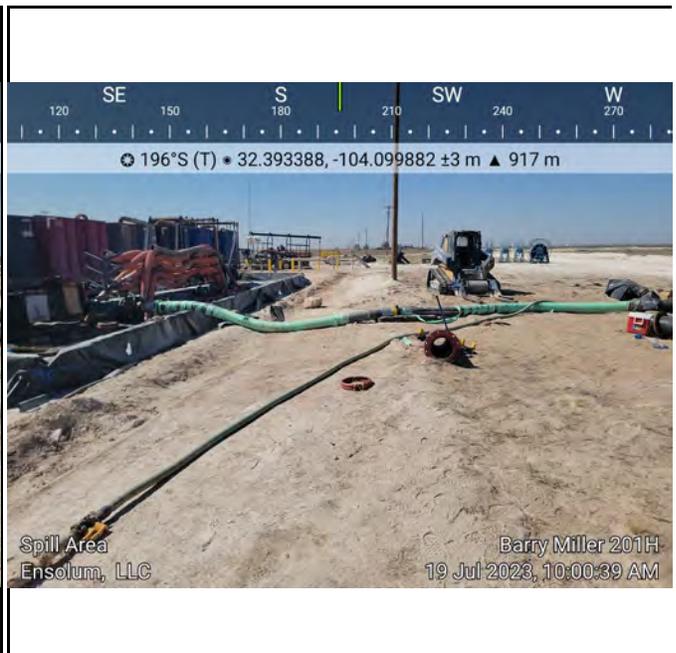
Photograph 1 Date: 07/13/2023
 Description: Lease sign for the Barry Miller State Com #201H
 View: South



Photograph 2 Date: 07/13/2023
 Description: Spill Area #1
 View: South



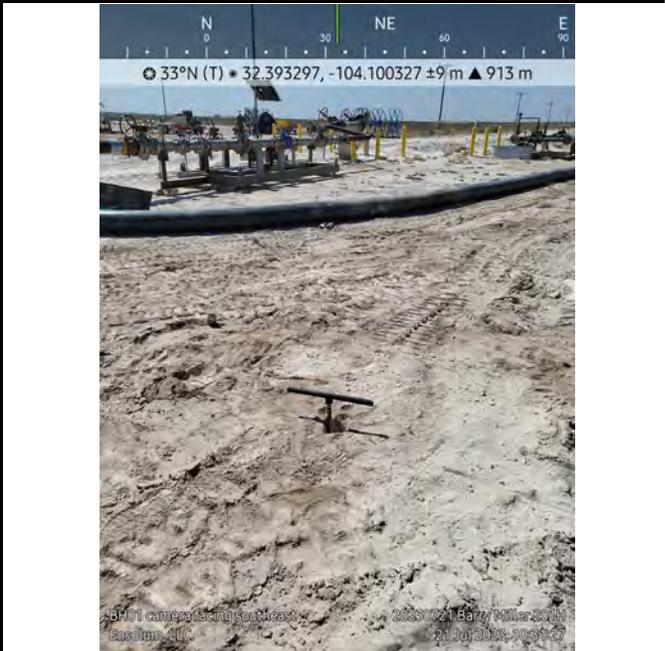
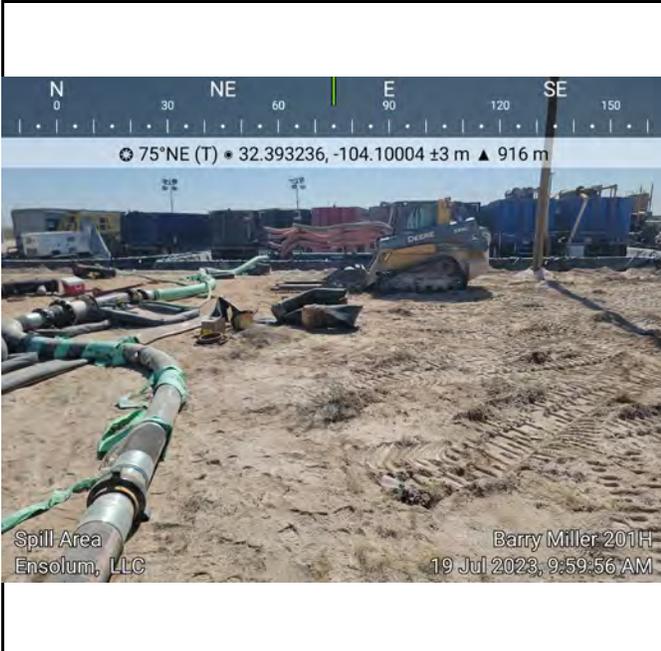
Photograph 3 Date: 07/13/2023
 Description: Spill Area #1
 View: North



Photograph 4 Date: 07/19/2023
 Description: Spill Area #2
 View: South

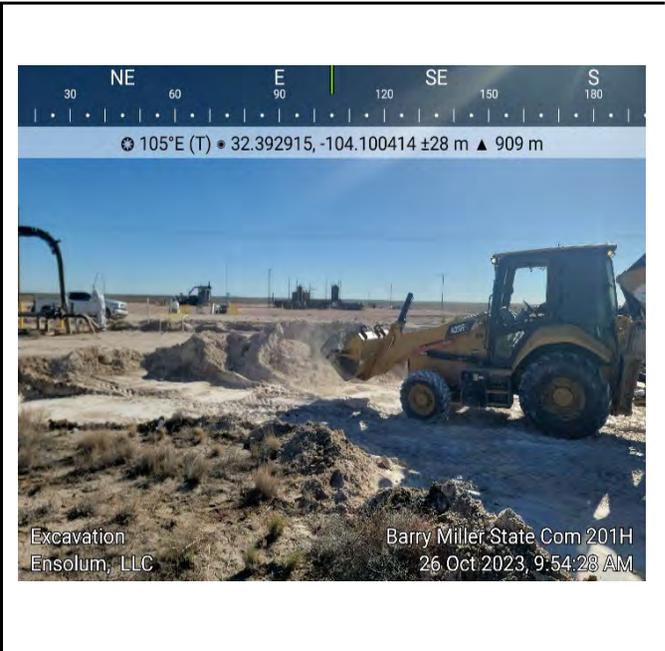
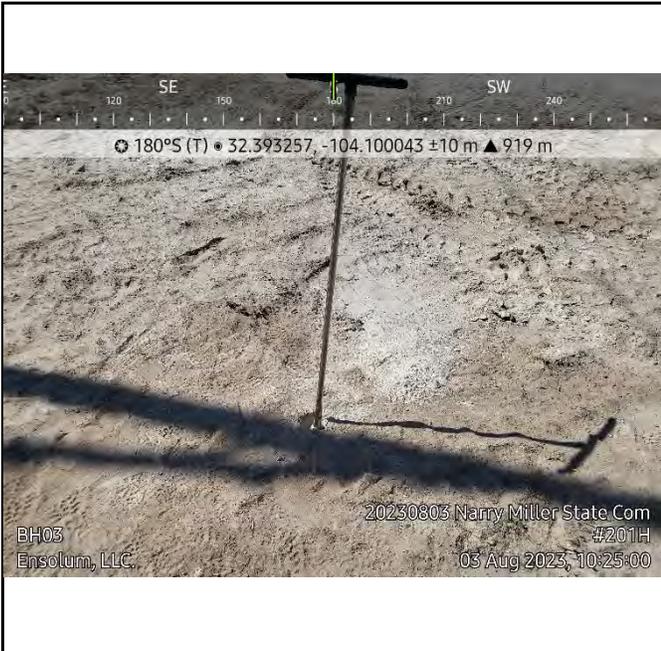


Photographic Log
Matador Production Company
Barry Miller State Com 201H
nAPP2319455228 & nAPP2319663541



Photograph 5 Date: 07/19/2023
Description: Spill Area #2
View: East

Photograph 6 Date: 07/21/2023
Description: Vertical Delineation (BH01)
View: Southeast



Photograph 7 Date: 08/03/2023
Description: Vertical Delineation (BH03)
View: South

Photograph 8 Date: 10/26/2023
Description: Excavation area
View: East

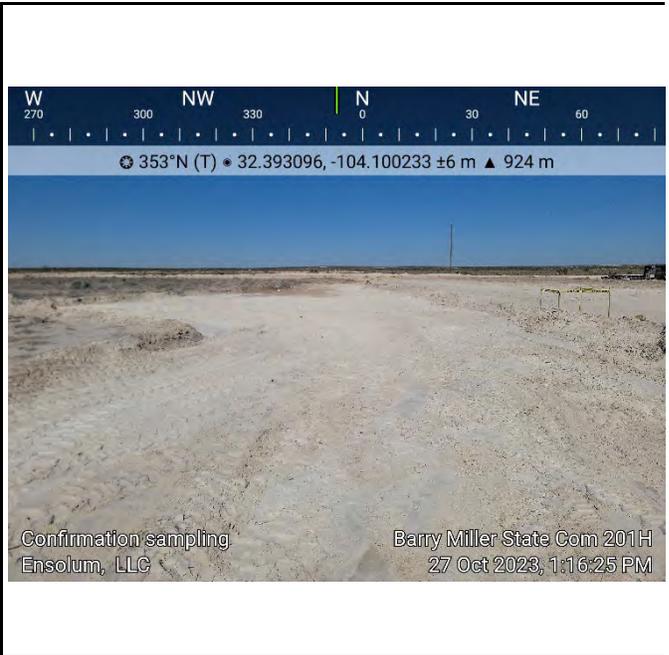


Photographic Log

Matador Production Company
Barry Miller State Com 201H
nAPP2319455228 & nAPP2319663541



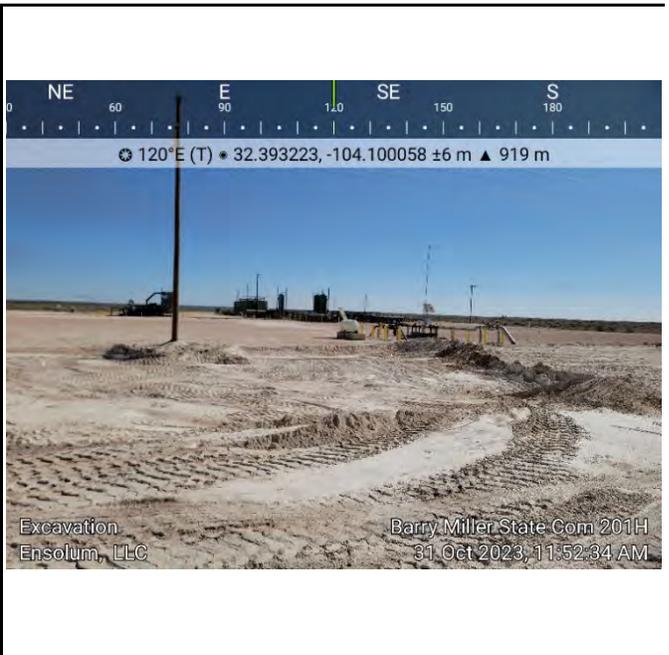
Photograph 9 Date: 10/26/2023
Description: Waste containing soil
View: Southwest



Photograph 10 Date: 10/27/2023
Description: Excavation area
View: North



Photograph 11 Date: 10/30/2023
Description: Excavation area
View: East



Photograph 12 Date: 10/31/2023
Description: Excavation area
View: Southeast



APPENDIX F

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: Barry Miller State Com #201H

Work Order: E307136

Job Number: 23052-0001

Received: 7/25/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/31/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 7/31/23



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

Project Name: Barry Miller State Com #201H
Workorder: E307136
Date Received: 7/25/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/25/2023 8:15:00AM, under the Project Name: Barry Miller State Com #201H.

The analytical test results summarized in this report with the Project Name: Barry Miller State Com #201H 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

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

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: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 07/31/23 14:15
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0'	E307136-01A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
SS02 - 0'	E307136-02A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
SS03 - 0'	E307136-03A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
SS04 - 0'	E307136-04A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
SS05 - 0'	E307136-05A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
SS06 - 0'	E307136-06A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
BH01A - 1'	E307136-07A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.
BH02A - 1'	E307136-08A	Soil	07/21/23	07/25/23	Glass Jar, 4 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/31/2023 2:15:50PM
---	--	---

SS01 - 0'

E307136-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Benzene	ND	0.0250	1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/25/23	07/27/23	
Toluene	ND	0.0250	1	07/25/23	07/27/23	
o-Xylene	ND	0.0250	1	07/25/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>	95.8 %	70-130		07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130		07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>	98.7 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>	95.8 %	70-130		07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130		07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>	98.7 %	70-130		07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/27/23	
<i>Surrogate: n-Nonane</i>	85.9 %	50-200		07/25/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2330052
Chloride	ND	100	5	07/25/23	07/27/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/31/2023 2:15:50PM
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SS02 - 0'

E307136-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Benzene	ND	0.0250	1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/25/23	07/27/23	
Toluene	ND	0.0250	1	07/25/23	07/27/23	
o-Xylene	ND	0.0250	1	07/25/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		94.9 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		97.1 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		94.9 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		97.1 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/27/23	
<i>Surrogate: n-Nonane</i>		121 %	50-200	07/25/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2330052
Chloride	ND	20.0	1	07/25/23	07/27/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/31/2023 2:15:50PM
---	--	---

SS03 - 0'

E307136-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Benzene	ND	0.0250	1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/25/23	07/27/23	
Toluene	ND	0.0250	1	07/25/23	07/27/23	
o-Xylene	ND	0.0250	1	07/25/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		95.8 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		97.0 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		95.8 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		97.0 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/27/23	
<i>Surrogate: n-Nonane</i>		93.5 %	50-200	07/25/23	07/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330052
Chloride	ND	200	10	07/25/23	07/27/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/31/2023 2:15:50PM
---	--	---

SS04 - 0'

E307136-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Benzene	ND	0.0250	1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/25/23	07/27/23	
Toluene	ND	0.0250	1	07/25/23	07/27/23	
o-Xylene	ND	0.0250	1	07/25/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		94.4 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		98.0 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		94.4 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		98.0 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/27/23	
<i>Surrogate: n-Nonane</i>		96.7 %	50-200	07/25/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2330052
Chloride	ND	20.0	1	07/25/23	07/27/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/31/2023 2:15:50PM
---	--	---

SS05 - 0'

E307136-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Benzene	ND	0.0250	1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/25/23	07/27/23	
Toluene	ND	0.0250	1	07/25/23	07/27/23	
o-Xylene	ND	0.0250	1	07/25/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		98.7 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		97.3 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		98.7 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/27/23	
<i>Surrogate: n-Nonane</i>		102 %	50-200	07/25/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2330052
Chloride	ND	100	5	07/25/23	07/27/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/31/2023 2:15:50PM
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SS06 - 0'

E307136-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Benzene	ND	0.0250	1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/25/23	07/27/23	
Toluene	ND	0.0250	1	07/25/23	07/27/23	
o-Xylene	ND	0.0250	1	07/25/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		93.3 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		97.4 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		93.3 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		97.4 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/27/23	
<i>Surrogate: n-Nonane</i>		107 %	50-200	07/25/23	07/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330052
Chloride	245	200	10	07/25/23	07/27/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/31/2023 2:15:50PM
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BH01A - 1'
E307136-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Benzene	ND	0.0250	1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/25/23	07/27/23	
Toluene	ND	0.0250	1	07/25/23	07/27/23	
o-Xylene	ND	0.0250	1	07/25/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		94.6 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		99.5 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		94.6 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.6 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		99.5 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/27/23	
<i>Surrogate: n-Nonane</i>		99.3 %	50-200	07/25/23	07/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2330052
Chloride	394	200	10	07/25/23	07/27/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/31/2023 2:15:50PM
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BH02A - 1'
E307136-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Benzene	ND	0.0250	1	07/25/23	07/27/23	
Ethylbenzene	ND	0.0250	1	07/25/23	07/27/23	
Toluene	ND	0.0250	1	07/25/23	07/27/23	
o-Xylene	ND	0.0250	1	07/25/23	07/27/23	
p,m-Xylene	ND	0.0500	1	07/25/23	07/27/23	
Total Xylenes	ND	0.0250	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		95.2 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.6 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		96.5 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2330031
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/23	07/27/23	
<i>Surrogate: Bromofluorobenzene</i>		95.2 %	70-130	07/25/23	07/27/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.6 %	70-130	07/25/23	07/27/23	
<i>Surrogate: Toluene-d8</i>		96.5 %	70-130	07/25/23	07/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2330050
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/27/23	
<i>Surrogate: n-Nonane</i>		125 %	50-200	07/25/23	07/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2330052
Chloride	ND	200	10	07/25/23	07/27/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/31/2023 2:15:50PM
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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 (2330031-BLK1)

Prepared: 07/25/23 Analyzed: 07/27/23

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	0.471		0.500		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2330031-BS1)

Prepared: 07/25/23 Analyzed: 07/27/23

Benzene	2.43	0.0250	2.50		97.3	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.6	70-130			
Toluene	2.38	0.0250	2.50		95.0	70-130			
o-Xylene	2.38	0.0250	2.50		95.0	70-130			
p,m-Xylene	4.74	0.0500	5.00		94.8	70-130			
Total Xylenes	7.12	0.0250	7.50		94.9	70-130			
Surrogate: Bromofluorobenzene	0.468		0.500		93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			

Matrix Spike (2330031-MS1)

Source: E307136-02

Prepared: 07/25/23 Analyzed: 07/27/23

Benzene	2.37	0.0250	2.50	ND	94.6	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	91.9	45-135			
Toluene	2.32	0.0250	2.50	ND	92.8	48-130			
o-Xylene	2.40	0.0250	2.50	ND	96.2	43-135			
p,m-Xylene	4.76	0.0500	5.00	ND	95.2	43-135			
Total Xylenes	7.17	0.0250	7.50	ND	95.6	43-135			
Surrogate: Bromofluorobenzene	0.471		0.500		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			

Matrix Spike Dup (2330031-MSD1)

Source: E307136-02

Prepared: 07/25/23 Analyzed: 07/27/23

Benzene	2.35	0.0250	2.50	ND	94.0	48-131	0.636	23	
Ethylbenzene	2.26	0.0250	2.50	ND	90.4	45-135	1.60	27	
Toluene	2.30	0.0250	2.50	ND	92.0	48-130	0.888	24	
o-Xylene	2.36	0.0250	2.50	ND	94.4	43-135	1.80	27	
p,m-Xylene	4.68	0.0500	5.00	ND	93.5	43-135	1.83	27	
Total Xylenes	7.04	0.0250	7.50	ND	93.8	43-135	1.82	27	
Surrogate: Bromofluorobenzene	0.475		0.500		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.490		0.500		98.0	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/31/2023 2:15:50PM
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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 (2330031-BLK1)

Prepared: 07/25/23 Analyzed: 07/27/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.471		0.500		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

LCS (2330031-BS2)

Prepared: 07/25/23 Analyzed: 07/27/23

Gasoline Range Organics (C6-C10)	50.1	20.0	50.0		100	70-130			
Surrogate: Bromofluorobenzene	0.471		0.500		94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

Matrix Spike (2330031-MS2)

Source: E307136-02

Prepared: 07/25/23 Analyzed: 07/27/23

Gasoline Range Organics (C6-C10)	51.3	20.0	50.0	ND	103	70-130			
Surrogate: Bromofluorobenzene	0.480		0.500		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.7	70-130			

Matrix Spike Dup (2330031-MSD2)

Source: E307136-02

Prepared: 07/25/23 Analyzed: 07/27/23

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.0	70-130	4.56	20	
Surrogate: Bromofluorobenzene	0.475		0.500		94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/31/2023 2:15:50PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2330050-BLK1)

Prepared: 07/25/23 Analyzed: 07/26/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.7		50.0		101	50-200			

LCS (2330050-BS1)

Prepared: 07/25/23 Analyzed: 07/26/23

Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
Surrogate: n-Nonane	53.4		50.0		107	50-200			

Matrix Spike (2330050-MS1)

Source: E307123-33

Prepared: 07/25/23 Analyzed: 07/26/23

Diesel Range Organics (C10-C28)	271	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			

Matrix Spike Dup (2330050-MSD1)

Source: E307123-33

Prepared: 07/25/23 Analyzed: 07/26/23

Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132	1.70	20	
Surrogate: n-Nonane	47.9		50.0		95.9	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 7/31/2023 2:15:50PM
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Anions by EPA 300.0/9056A

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 (2330052-BLK1)

Prepared: 07/25/23 Analyzed: 07/27/23

Chloride	ND	20.0							
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LCS (2330052-BS1)

Prepared: 07/25/23 Analyzed: 07/27/23

Chloride	255	20.0	250		102	90-110			
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Matrix Spike (2330052-MS1)

Source: E307136-01

Prepared: 07/25/23 Analyzed: 07/27/23

Chloride	259	100	250	ND	104	80-120			
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Matrix Spike Dup (2330052-MSD1)

Source: E307136-01

Prepared: 07/25/23 Analyzed: 07/27/23

Chloride	264	100	250	ND	106	80-120	1.82	20	
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 07/31/23 14:15
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Released to Imaging: 3/15/2024 9:13:57 AM

Received by OCD: 11/18/2023 1:13:54 PM

Client: Matador Production Company.		Bill To		Lab Use Only		TAT		EPA Program					
Project: Barry Miller State Com #201H		Attention: Matador Production Company		Lab WO# E 307136		Job Number 23052-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		E 307136		23052-0001					x		
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method								RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0	
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com		BGDOC NM		GDOC TX						State	
Email: agiovengo@ensolum.com		Report due by:		NM		CO		UT		AZ		TX	
				x									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
8:45	7/21/2023	Soil	1 Jar	SS01 - 0'	1						X		
8:51	7/21/2023	Soil	1 Jar	SS02 - 0'	2						X		
8:55	7/21/2023	Soil	1 Jar	SS03 - 0'	3						X		
9:00	7/21/2023	Soil	1 Jar	SS04 - 0'	4						X		
9:05	7/21/2023	Soil	1 Jar	SS05 - 0'	5						X		
10:50	7/21/2023	Soil	1 Jar	SS06 - 0'	6						X		
9:38	7/21/2023	Soil	1 Jar	BH01A - 1'	7						X		
9:39	7/21/2023	Soil	1 Jar	BH02A - 1'	8						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling 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 5 °C on subsequent days.			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time
<i>[Signature]</i>		7-24-23	11:34	<i>[Signature]</i>		7-24-23	11:36
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time
<i>[Signature]</i>		7-24-23	15:37	<i>[Signature]</i>		7-24-23	16:30
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time
<i>[Signature]</i>		7-24-23	22:15	<i>[Signature]</i>		7/25/23	8:15
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 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Page 57 of 185

Envirotech Analytical Laboratory

Printed: 7/25/2023 8:44:51AM

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: 07/25/23 08:15	Work Order ID: E307136
Phone: (972) 371-5200	Date Logged In: 07/25/23 08:39	Logged In By: Caitlin Mars
Email: agiovnngo@ensolum.com	Due Date: 07/31/23 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Barry Miller State Com #201H

Work Order: E308036

Job Number: 23052-0001

Received: 8/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/10/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/10/23



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

Project Name: Barry Miller State Com #201H
Workorder: E308036
Date Received: 8/7/2023 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/7/2023 7:45:00AM, under the Project Name: Barry Miller State Com #201H.

The analytical test results summarized in this report with the Project Name: Barry Miller State Com #201H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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Laboratory Administrator
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 08/10/23 10:32
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS07 - 0'	E308036-01A	Soil	08/03/23	08/07/23	Glass Jar, 2 oz.
BH03 - 0'	E308036-02A	Soil	08/03/23	08/07/23	Glass Jar, 2 oz.
BH03 - 1'	E308036-03A	Soil	08/03/23	08/07/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/10/2023 10:32:24AM
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SS07 - 0'

E308036-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332010
Benzene	ND	0.0250	1	08/07/23	08/08/23	
Ethylbenzene	ND	0.0250	1	08/07/23	08/08/23	
Toluene	ND	0.0250	1	08/07/23	08/08/23	
o-Xylene	ND	0.0250	1	08/07/23	08/08/23	
p,m-Xylene	ND	0.0500	1	08/07/23	08/08/23	
Total Xylenes	ND	0.0250	1	08/07/23	08/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	08/07/23	08/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332010
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/23	08/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.6 %	70-130	08/07/23	08/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2332039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/23	08/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/23	08/08/23	
<i>Surrogate: n-Nonane</i>						
		93.4 %	50-200	08/08/23	08/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332014
Chloride	1900	200	10	08/07/23	08/08/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/10/2023 10:32:24AM
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BH03 - 0'

E308036-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2332010
Benzene	ND	0.0250	1	08/07/23	08/08/23	
Ethylbenzene	ND	0.0250	1	08/07/23	08/08/23	
Toluene	ND	0.0250	1	08/07/23	08/08/23	
o-Xylene	ND	0.0250	1	08/07/23	08/08/23	
p,m-Xylene	ND	0.0500	1	08/07/23	08/08/23	
Total Xylenes	ND	0.0250	1	08/07/23	08/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.4 %	70-130	08/07/23	08/08/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2332010
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/23	08/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.7 %	70-130	08/07/23	08/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2332039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/23	08/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/23	08/08/23	
<i>Surrogate: n-Nonane</i>		76.7 %	50-200	08/08/23	08/08/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2332014
Chloride	4740	400	20	08/07/23	08/08/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/10/2023 10:32:24AM
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BH03 - 1'

E308036-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332010
Benzene	ND	0.0250	1	08/07/23	08/08/23	
Ethylbenzene	ND	0.0250	1	08/07/23	08/08/23	
Toluene	ND	0.0250	1	08/07/23	08/08/23	
o-Xylene	ND	0.0250	1	08/07/23	08/08/23	
p,m-Xylene	ND	0.0500	1	08/07/23	08/08/23	
Total Xylenes	ND	0.0250	1	08/07/23	08/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.4 %	70-130	08/07/23	08/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2332010
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/23	08/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.9 %	70-130	08/07/23	08/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2332039
Diesel Range Organics (C10-C28)	ND	25.0	1	08/08/23	08/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/08/23	08/08/23	
<i>Surrogate: n-Nonane</i>						
		131 %	50-200	08/08/23	08/08/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2332014
Chloride	409	200	10	08/07/23	08/08/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/10/2023 10:32:24AM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2332010-BLK1)

Prepared: 08/07/23 Analyzed: 08/07/23

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	8.08		8.00		101	70-130			

LCS (2332010-BS1)

Prepared: 08/07/23 Analyzed: 08/07/23

Benzene	4.77	0.0250	5.00		95.3	70-130			
Ethylbenzene	4.62	0.0250	5.00		92.3	70-130			
Toluene	4.77	0.0250	5.00		95.5	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
p,m-Xylene	9.56	0.0500	10.0		95.6	70-130			
Total Xylenes	14.3	0.0250	15.0		95.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.95		8.00		99.4	70-130			

Matrix Spike (2332010-MS1)

Source: E308033-01

Prepared: 08/07/23 Analyzed: 08/07/23

Benzene	4.82	0.0250	5.00	ND	96.4	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.5	61-133			
Toluene	4.84	0.0250	5.00	ND	96.8	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131			
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.7	70-130			

Matrix Spike Dup (2332010-MSD1)

Source: E308033-01

Prepared: 08/07/23 Analyzed: 08/08/23

Benzene	4.74	0.0250	5.00	ND	94.7	54-133	1.75	20	
Ethylbenzene	4.58	0.0250	5.00	ND	91.7	61-133	2.03	20	
Toluene	4.75	0.0250	5.00	ND	95.0	61-130	1.88	20	
o-Xylene	4.74	0.0250	5.00	ND	94.8	63-131	2.03	20	
p,m-Xylene	9.49	0.0500	10.0	ND	94.9	63-131	2.00	20	
Total Xylenes	14.2	0.0250	15.0	ND	94.9	63-131	2.01	20	
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/10/2023 10:32:24AM
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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 (2332010-BLK1)

Prepared: 08/07/23 Analyzed: 08/07/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.80		8.00		85.0	70-130			

LCS (2332010-BS2)

Prepared: 08/07/23 Analyzed: 08/07/23

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.9	70-130			

Matrix Spike (2332010-MS2)

Source: E308033-01

Prepared: 08/07/23 Analyzed: 08/08/23

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.81		8.00		85.2	70-130			

Matrix Spike Dup (2332010-MSD2)

Source: E308033-01

Prepared: 08/07/23 Analyzed: 08/08/23

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0	ND	85.7	70-130	2.74	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/10/2023 10:32:24AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2332039-BLK1)

Prepared: 08/08/23 Analyzed: 08/08/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.6		50.0		99.1	50-200			

LCS (2332039-BS1)

Prepared: 08/08/23 Analyzed: 08/08/23

Diesel Range Organics (C10-C28)	234	25.0	250		93.7	38-132			
Surrogate: <i>n</i> -Nonane	45.4		50.0		90.8	50-200			

Matrix Spike (2332039-MS1)

Source: E308036-03

Prepared: 08/08/23 Analyzed: 08/09/23

Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.7	38-132			
Surrogate: <i>n</i> -Nonane	40.8		50.0		81.7	50-200			

Matrix Spike Dup (2332039-MSD1)

Source: E308036-03

Prepared: 08/08/23 Analyzed: 08/08/23

Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.4	38-132	0.325	20	
Surrogate: <i>n</i> -Nonane	43.0		50.0		86.0	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/10/2023 10:32:24AM
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Anions by EPA 300.0/9056A

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 (2332014-BLK1)

Prepared: 08/07/23 Analyzed: 08/07/23

Chloride ND 20.0

LCS (2332014-BS1)

Prepared: 08/07/23 Analyzed: 08/08/23

Chloride 254 20.0 250 102 90-110

Matrix Spike (2332014-MS1)

Source: E308028-01

Prepared: 08/07/23 Analyzed: 08/08/23

Chloride 336 20.0 250 ND 135 80-120 M2

Matrix Spike Dup (2332014-MSD1)

Source: E308028-01

Prepared: 08/07/23 Analyzed: 08/08/23

Chloride 311 20.0 250 ND 125 80-120 7.71 20 M2

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 08/10/23 10:32
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M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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: Matador Production Company.		Bill To Attention: Matador Production Company Address: on file City, State, Zip: Phone: (337)319-8398 Email: clinton.talley@matadorresources.com	Lab Use Only				TAT				EPA Program					
Project: Barry Miller State Com #201H			Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo			E3080360			23062-0001				x						
Address: 3122 National Parks Hwy			Analysis and Method													
City, State, Zip: Carlsbad NM, 88220			TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	TX	GDOC	State				
Phone: 575-988-0055												NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com		x														
Report due by:		Remarks														

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	TX	GDOC	Remarks
9:58	8/3/2023	Soil	1 Jar	SS07 - 0'	1						X				
9:57	8/3/2023	Soil	1 Jar	BH03 - 0'	2						X				
9:59	8/3/2023	Soil	1 Jar	BH03 - 1'	3						X				

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chadhilton@ensolum.com Please see remarks.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling 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) <i>Lela Burt</i>	Date 8-4-23	Time 11:36	Received by: (Signature) <i>Micelle Carl</i>	Date 8-4-23	Time 11:36	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Micelle Carl</i>	Date 8-4-23	Time 1715	Received by: (Signature) <i>Micelle Carl</i>	Date 8-4-23	Time 1730	
Relinquished by: (Signature) <i>Micelle Carl</i>	Date 8-4-23	Time 2345	Received by: (Signature) <i>Allyson</i>	Date 8-7-23	Time 7:45	

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 30 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.



Released to Imaging: 3/15/2024 9:13:57 AM

Received by OCD: 11/18/2023 1:13:54 PM

Envirotech Analytical Laboratory

Printed: 8/7/2023 3:10:51PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 08/07/23 07:45	Work Order ID: E308036
Phone: (972) 371-5200	Date Logged In: 08/04/23 16:43	Logged In By: Caitlin Mars
Email: agiovnngo@ensolum.com	Due Date: 08/11/23 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Barry Miller State Com #201H

Work Order: E308239

Job Number: 23052-0001

Received: 9/1/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/6/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 9/6/23

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

Project Name: Barry Miller State Com #201H
Workorder: E308239
Date Received: 9/1/2023 5:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/1/2023 5:45:00AM, under the Project Name: Barry Miller State Com #201H.

The analytical test results summarized in this report with the Project Name: Barry Miller State Com #201H 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: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 09/06/23 07:16
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS07A - 0'	E308239-01A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.
SS07B - 0'	E308239-02A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/6/2023 7:16:07AM
---	--	--

SS07A - 0'
E308239-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: IY		Batch: 2335080
Benzene	ND	0.0250	1	08/31/23	09/02/23	
Ethylbenzene	ND	0.0250	1	08/31/23	09/02/23	
Toluene	ND	0.0250	1	08/31/23	09/02/23	
o-Xylene	ND	0.0250	1	08/31/23	09/02/23	
p,m-Xylene	ND	0.0500	1	08/31/23	09/02/23	
Total Xylenes	ND	0.0250	1	08/31/23	09/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.4 %	70-130	08/31/23	09/02/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2335080
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/23	09/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.4 %	70-130	08/31/23	09/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2335096
Diesel Range Organics (C10-C28)	ND	25.0	1	09/01/23	09/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/01/23	09/01/23	
<i>Surrogate: n-Nonane</i>		96.8 %	50-200	09/01/23	09/01/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2335093
Chloride	199	20.0	1	08/31/23	09/01/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/6/2023 7:16:07AM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335080-BLK1)

Prepared: 08/31/23 Analyzed: 08/31/23

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	7.46		8.00		93.3	70-130			

LCS (2335080-BS1)

Prepared: 08/31/23 Analyzed: 09/01/23

Benzene	5.15	0.0250	5.00		103	70-130			
Ethylbenzene	5.00	0.0250	5.00		100	70-130			
Toluene	5.17	0.0250	5.00		103	70-130			
o-Xylene	5.12	0.0250	5.00		102	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike (2335080-MS1)

Source: E308238-06

Prepared: 08/31/23 Analyzed: 09/01/23

Benzene	5.33	0.0250	5.00	ND	107	54-133			
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133			
Toluene	5.35	0.0250	5.00	ND	107	61-130			
o-Xylene	5.29	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

Matrix Spike Dup (2335080-MSD1)

Source: E308238-06

Prepared: 08/31/23 Analyzed: 09/01/23

Benzene	5.03	0.0250	5.00	ND	101	54-133	5.89	20	
Ethylbenzene	4.86	0.0250	5.00	ND	97.1	61-133	5.89	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	5.98	20	
o-Xylene	4.99	0.0250	5.00	ND	99.9	63-131	5.82	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	5.89	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	5.87	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/6/2023 7:16:07AM
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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 (2335080-BLK1)

Prepared: 08/31/23 Analyzed: 08/31/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.2	70-130			

LCS (2335080-BS2)

Prepared: 08/31/23 Analyzed: 09/01/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		98.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.5	70-130			

Matrix Spike (2335080-MS2)

Source: E308238-06

Prepared: 08/31/23 Analyzed: 09/01/23

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		8.00		87.9	70-130			

Matrix Spike Dup (2335080-MSD2)

Source: E308238-06

Prepared: 08/31/23 Analyzed: 09/01/23

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130	1.28	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.02		8.00		87.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/6/2023 7:16:07AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335096-BLK1)

Prepared: 09/01/23 Analyzed: 09/01/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	47.0		50.0		94.1	50-200			

LCS (2335096-BS1)

Prepared: 09/01/23 Analyzed: 09/01/23

Diesel Range Organics (C10-C28)	232	25.0	250		92.6	38-132			
Surrogate: <i>n</i> -Nonane	43.4		50.0		86.8	50-200			

Matrix Spike (2335096-MS1)

Source: E308231-23

Prepared: 09/01/23 Analyzed: 09/01/23

Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.3	38-132			
Surrogate: <i>n</i> -Nonane	45.3		50.0		90.7	50-200			

Matrix Spike Dup (2335096-MSD1)

Source: E308231-23

Prepared: 09/01/23 Analyzed: 09/01/23

Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132	0.730	20	
Surrogate: <i>n</i> -Nonane	45.9		50.0		91.9	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/6/2023 7:16:07AM
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Anions by EPA 300.0/9056A

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 (2335093-BLK1)

Prepared: 08/31/23 Analyzed: 09/01/23

Chloride ND 20.0

LCS (2335093-BS1)

Prepared: 08/31/23 Analyzed: 09/01/23

Chloride 242 20.0 250 96.9 90-110

Matrix Spike (2335093-MS1)

Source: E308235-21

Prepared: 08/31/23 Analyzed: 09/01/23

Chloride 521 20.0 250 318 81.1 80-120

Matrix Spike Dup (2335093-MSD1)

Source: E308235-21

Prepared: 08/31/23 Analyzed: 09/01/23

Chloride 566 20.0 250 318 99.1 80-120 8.29 20

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 09/06/23 07:16
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Envirotech Analytical Laboratory

Printed: 9/1/2023 10:41:29AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 09/01/23 05:45 Work Order ID: E308239
Phone: (972) 371-5200 Date Logged In: 08/31/23 14:41 Logged In By: Caitlin Mars
Email: agiovnngo@ensolum.com Due Date: 09/07/23 17:00 (3 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

Comments/Resolution

Remarks on COC: Do not run unless SS07A-0 is >100 TPH or 600 Cl.

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: Barry Miller State Com #201H

Work Order: E310300

Job Number: 23052-0001

Received: 10/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/6/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/6/23

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



Project Name: Barry Miller State Com #201H
Workorder: E310300
Date Received: 10/31/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/31/2023 8:15:00AM, under the Project Name: Barry Miller State Com #201H.

The analytical test results summarized in this report with the Project Name: Barry Miller State Com #201H 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: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/06/23 14:26
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 - 0.5'	E310300-01A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
SW02 - 0.5'	E310300-02A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS02 - 01'	E310300-03A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS07 - 1'	E310300-04A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS08 - 1'	E310300-05A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS09 - 1'	E310300-06A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS10 - 1'	E310300-07A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS11 - 1'	E310300-08A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS14 - 1'	E310300-09A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.
FS15 - 1'	E310300-10A	Soil	10/27/23	10/31/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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SW01 - 0.5'

E310300-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		117 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.3 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		117 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.3 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/02/23	
<i>Surrogate: n-Nonane</i>		90.2 %	50-200	11/02/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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SW02 - 0.5'

E310300-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/02/23	
<i>Surrogate: n-Nonane</i>		92.6 %	50-200	11/02/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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FS02 - 01'

E310300-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2344030	
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.5 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2344030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.5 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2344070	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/03/23	
<i>Surrogate: n-Nonane</i>		93.4 %	50-200	11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2344100	
Chloride	ND	400	20	11/03/23	11/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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FS07 - 1'

E310300-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/03/23	
<i>Surrogate: n-Nonane</i>		89.6 %	50-200	11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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FS08 - 1'

E310300-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		114 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		114 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/03/23	
<i>Surrogate: n-Nonane</i>		82.0 %	50-200	11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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FS09 - 1'

E310300-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/03/23	
<i>Surrogate: n-Nonane</i>		92.7 %	50-200	11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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FS10 - 1'
E310300-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		115 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.0 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		115 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.0 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/03/23	
<i>Surrogate: n-Nonane</i>		97.6 %	50-200	11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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FS11 - 1'

E310300-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		113 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		113 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/03/23	
<i>Surrogate: n-Nonane</i>		87.7 %	50-200	11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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FS14 - 1'
E310300-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		114 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		114 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/03/23	
<i>Surrogate: n-Nonane</i>		88.3 %	50-200	11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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FS15 - 1'

E310300-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.7 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	10/31/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.7 %	70-130	10/31/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/03/23	
<i>Surrogate: n-Nonane</i>		83.8 %	50-200	11/02/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344100
Chloride	ND	400	20	11/03/23	11/04/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344030-BLK1)

Prepared: 10/31/23 Analyzed: 11/02/23

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	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2344030-BS1)

Prepared: 10/31/23 Analyzed: 11/02/23

Benzene	2.70	0.0250	2.50		108	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.61	0.0250	2.50		105	70-130			
o-Xylene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	5.20	0.0500	5.00		104	70-130			
Total Xylenes	7.77	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.573		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

Matrix Spike (2344030-MS1)

Source: E310292-01

Prepared: 10/31/23 Analyzed: 11/02/23

Benzene	2.77	0.0250	2.50	ND	111	48-131			
Ethylbenzene	2.75	0.0250	2.50	ND	110	45-135			
Toluene	2.69	0.0250	2.50	ND	108	48-130			
o-Xylene	2.68	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.36	0.0500	5.00	ND	107	43-135			
Total Xylenes	8.04	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.595		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			

Matrix Spike Dup (2344030-MSD1)

Source: E310292-01

Prepared: 10/31/23 Analyzed: 11/02/23

Benzene	2.68	0.0250	2.50	ND	107	48-131	3.04	23	
Ethylbenzene	2.68	0.0250	2.50	ND	107	45-135	2.56	27	
Toluene	2.64	0.0250	2.50	ND	106	48-130	1.74	24	
o-Xylene	2.61	0.0250	2.50	ND	104	43-135	2.59	27	
p,m-Xylene	5.23	0.0500	5.00	ND	105	43-135	2.51	27	
Total Xylenes	7.84	0.0250	7.50	ND	105	43-135	2.54	27	
Surrogate: Bromofluorobenzene	0.589		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344030-BLK1)

Prepared: 10/31/23 Analyzed: 11/02/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2344030-BS2)

Prepared: 10/31/23 Analyzed: 11/02/23

Gasoline Range Organics (C6-C10)	57.2	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			

Matrix Spike (2344030-MS2)

Source: E310292-01

Prepared: 10/31/23 Analyzed: 11/02/23

Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			

Matrix Spike Dup (2344030-MSD2)

Source: E310292-01

Prepared: 10/31/23 Analyzed: 11/02/23

Gasoline Range Organics (C6-C10)	57.1	20.0	50.0	ND	114	70-130	3.37	20	
Surrogate: Bromofluorobenzene	0.576		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.556		0.500		111	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344070-BLK1)

Prepared: 11/02/23 Analyzed: 11/02/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	45.5		50.0		90.9	50-200			

LCS (2344070-BS1)

Prepared: 11/02/23 Analyzed: 11/02/23

Diesel Range Organics (C10-C28)	209	25.0	250		83.6	38-132			
Surrogate: <i>n</i> -Nonane	40.0		50.0		80.0	50-200			

Matrix Spike (2344070-MS1)

Source: E310300-08

Prepared: 11/02/23 Analyzed: 11/02/23

Diesel Range Organics (C10-C28)	225	25.0	250	ND	89.9	38-132			
Surrogate: <i>n</i> -Nonane	41.7		50.0		83.4	50-200			

Matrix Spike Dup (2344070-MSD1)

Source: E310300-08

Prepared: 11/02/23 Analyzed: 11/02/23

Diesel Range Organics (C10-C28)	219	25.0	250	ND	87.6	38-132	2.55	20	
Surrogate: <i>n</i> -Nonane	41.8		50.0		83.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/6/2023 2:26:04PM
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Anions by EPA 300.0/9056A

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 (2344100-BLK1)

Prepared: 11/03/23 Analyzed: 11/04/23

Chloride ND 20.0

LCS (2344100-BS1)

Prepared: 11/03/23 Analyzed: 11/04/23

Chloride 250 20.0 250 100 90-110

Matrix Spike (2344100-MS1)

Source: E310300-03

Prepared: 11/03/23 Analyzed: 11/04/23

Chloride 531 400 250 ND 213 80-120 M5

Matrix Spike Dup (2344100-MSD1)

Source: E310300-03

Prepared: 11/03/23 Analyzed: 11/04/23

Chloride 535 400 250 ND 214 80-120 0.754 20 M5

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/06/23 14:26
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M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. 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: Matador Production Company.	Bill To Attention: Matador Production Company Address: on file City, State, Zip: Phone: (337)319-8398 Email: clinton.talley@matadorresources.com	Lab Use Only				TAT				EPA Program		
Project: Barry Miller State Com #201H		Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo		E310300	23052-0001						x			
Address: 3122 National Parks Hwy		Analysis and Method TPH GRO/DRO/ORO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM GDOC TX									RCRA	
City, State, Zip: Carlsbad NM, 88220											State	
Phone: 575-988-0055		NM		CO	UT	AZ	TX					
Email: agiovengo@ensolum.com	x											
Report due by:	Remarks											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
11:06	10/27/2023	Soil	1 Jar	SW01 - 0.5'	1						X		
12:56	10/27/2023	Soil	1 Jar	SW02 - 0.5'	2						X		
13:55	10/27/2023	Soil	1 Jar	FS02 - 1'	3						X		
13:44	10/27/2023	Soil	1 Jar	FS07 - 1'	4						X		
13:43	10/27/2023	Soil	1 Jar	FS08 - 1'	5						X		
13:42	10/27/2023	Soil	1 Jar	Fs09 - 1'	6						X		
13:38	10/27/2023	Soil	1 Jar	FS10 - 1'	7						X		
13:28	10/27/2023	Soil	1 Jar	FS11 - 1'	8						X		
13:30	10/27/2023	Soil	1 Jar	FS14 - 1'	9						X		
13:26	10/27/2023	Soil	1 Jar	Fs15 - 1'	10						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehafft@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling 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) <i>Edy B...</i>				Date	Time	Received by: (Signature) <i>Michelle Cuyf</i>		Date	Time	Lab Use Only		
Relinquished by: (Signature) <i>Michelle Cuyf</i>				10-30-23	7:20	Received by: (Signature) <i>Jan L...</i>		10-30-23	07:20	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N		
Relinquished by: (Signature) <i>Jan L...</i>				10-30-23	16:15	Received by: (Signature) <i>Lacey R...</i>		10/30/23	16:50	T1	T2	T3
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other				10/30/23	22:30	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA		10/31/23	8:15	AVG Temp °C <u>4</u>		

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 10/31/2023 8:59:16AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC. Date Received: 10/31/23 08:15 Work Order ID: E310300
Phone: (972) 371-5200 Date Logged In: 10/31/23 08:33 Logged In By: Lacey Rodgers
Email: agiovnngo@ensolum.com Due Date: 11/06/23 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

- 20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

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: Barry Miller State Com #201H

Work Order: E310306

Job Number: 23052-0001

Received: 11/1/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/7/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/7/23

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



Project Name: Barry Miller State Com #201H
Workorder: E310306
Date Received: 11/1/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/1/2023 8:30:00AM, under the Project Name: Barry Miller State Com #201H.

The analytical test results summarized in this report with the Project Name: Barry Miller State Com #201H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

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

Project Name: Barry Miller State Com #201H
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
11/07/23 15:12

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 1.5'	E310306-01A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS03 - 1.5'	E310306-02A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS04 - 1.5'	E310306-03A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS05 - 1.5'	E310306-04A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS06 - 1.5'	E310306-05A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS12 - 1'	E310306-06A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS13 - 1'	E310306-07A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
SW03 - 0.5'	E310306-08A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
SW04 - 0.5'	E310306-09A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS20 - 1'	E310306-10A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS21 - 1'	E310306-11A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
SW08 - 0.5'	E310306-12A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS16 - 1'	E310306-13A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS17 - 1'	E310306-14A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS18 - 1'	E310306-15A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS19 - 1'	E310306-16A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS24 - 1'	E310306-17A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS25 - 1.5'	E310306-18A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS26 - 1'	E310306-19A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS27 - 1'	E310306-20A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS28 - 1'	E310306-21A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS29 - 1'	E310306-22A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS30 - 1'	E310306-23A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS31 - 1'	E310306-24A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS22 - 1'	E310306-25A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS23 - 2.5'	E310306-26A	Soil	10/30/23	11/01/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS01 - 1.5'

E310306-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
<i>Surrogate: n-Nonane</i>		84.3 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS03 - 1.5'

E310306-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.2 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
<i>Surrogate: n-Nonane</i>						
		90.5 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS04 - 1.5'

E310306-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
<i>Surrogate: n-Nonane</i>						
		85.4 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS05 - 1.5'

E310306-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.7 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.1 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
<i>Surrogate: n-Nonane</i>						
		84.0 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS06 - 1.5'

E310306-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.3 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.5 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
<i>Surrogate: n-Nonane</i>						
		80.1 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS12 - 1'

E310306-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.9 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
<i>Surrogate: n-Nonane</i>		82.7 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS13 - 1'

E310306-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
<i>Surrogate: n-Nonane</i>						
	86.3 %	50-200		11/03/23	11/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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SW03 - 0.5'

E310306-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.3 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
<i>Surrogate: n-Nonane</i>						
		81.1 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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SW04 - 0.5'

E310306-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.8 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		86.7 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS20 - 1'

E310306-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
	89.0 %	50-200		11/03/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS21 - 1'
E310306-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.5 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>		84.7 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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SW08 - 0.5'

E310306-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
	83.6 %	50-200		11/03/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS16 - 1'

E310306-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.2 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		95.0 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	207	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS17 - 1'

E310306-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
	80.0 %	50-200		11/03/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS18 - 1'

E310306-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.7 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>		86.0 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS19 - 1'

E310306-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.8 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.7 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		82.1 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS24 - 1'

E310306-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.5 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>		85.9 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS25 - 1.5'

E310306-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		81.3 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS26 - 1'

E310306-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		86.3 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS27 - 1'

E310306-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Benzene	ND	0.0250	1	11/01/23	11/03/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/03/23	
Toluene	ND	0.0250	1	11/01/23	11/03/23	
o-Xylene	ND	0.0250	1	11/01/23	11/03/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/03/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/03/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.0 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344046
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/03/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	11/01/23	11/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344086
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>		83.4 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344117
Chloride	ND	200	10	11/04/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS28 - 1'

E310306-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	11/01/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	11/01/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		99.5 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	11/01/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	11/01/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		99.5 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344092
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>		85.9 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344118
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS29 - 1'

E310306-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	11/01/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	70-130	11/01/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	11/01/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	70-130	11/01/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344092
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>		88.3 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344118
Chloride	477	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS30 - 1'
E310306-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	11/01/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	70-130	11/01/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	11/01/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %	70-130	11/01/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2344092
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>		91.8 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2344118
Chloride	316	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS31 - 1'
E310306-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	11/01/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	11/01/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	11/01/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	11/01/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2344092
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>		82.4 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2344118
Chloride	466	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS22 - 1'

E310306-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	11/01/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	11/01/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		99.7 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	11/01/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	11/01/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		99.7 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344092
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>		86.3 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344118
Chloride	ND	200	10	11/04/23	11/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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FS23 - 2.5'

E310306-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	11/01/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	11/01/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		99.7 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	11/01/23	11/02/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	70-130	11/01/23	11/02/23	
<i>Surrogate: Toluene-d8</i>		99.7 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2344092
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
<i>Surrogate: n-Nonane</i>		86.6 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2344118
Chloride	593	200	10	11/04/23	11/06/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344042-BLK1)

Prepared: 11/01/23 Analyzed: 11/02/23

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	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

LCS (2344042-BS1)

Prepared: 11/01/23 Analyzed: 11/02/23

Benzene	2.43	0.0250	2.50		97.4	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.8	70-130			
Toluene	2.35	0.0250	2.50		94.0	70-130			
o-Xylene	2.38	0.0250	2.50		95.4	70-130			
p,m-Xylene	4.68	0.0500	5.00		93.7	70-130			
Total Xylenes	7.07	0.0250	7.50		94.2	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2344042-MS1)

Source: E310305-23

Prepared: 11/01/23 Analyzed: 11/02/23

Benzene	2.40	0.0250	2.50	ND	96.1	48-131			
Ethylbenzene	2.39	0.0250	2.50	ND	95.7	45-135			
Toluene	2.31	0.0250	2.50	ND	92.3	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.3	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	91.9	43-135			
Total Xylenes	6.95	0.0250	7.50	ND	92.7	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			

Matrix Spike Dup (2344042-MSD1)

Source: E310305-23

Prepared: 11/01/23 Analyzed: 11/02/23

Benzene	2.42	0.0250	2.50	ND	96.7	48-131	0.685	23	
Ethylbenzene	2.41	0.0250	2.50	ND	96.4	45-135	0.771	27	
Toluene	2.33	0.0250	2.50	ND	93.1	48-130	0.885	24	
o-Xylene	2.38	0.0250	2.50	ND	95.4	43-135	1.18	27	
p,m-Xylene	4.68	0.0500	5.00	ND	93.5	43-135	1.76	27	
Total Xylenes	7.06	0.0250	7.50	ND	94.2	43-135	1.56	27	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344046-BLK1)

Prepared: 11/01/23 Analyzed: 11/03/23

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	7.61		8.00		95.1	70-130			

LCS (2344046-BS1)

Prepared: 11/01/23 Analyzed: 11/03/23

Benzene	5.08	0.0250	5.00		102	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.8	70-130			

Matrix Spike (2344046-MS1)

Source: E310306-02

Prepared: 11/01/23 Analyzed: 11/03/23

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.05	0.0250	5.00	ND	101	61-133			
Toluene	5.10	0.0250	5.00	ND	102	61-130			
o-Xylene	5.04	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

Matrix Spike Dup (2344046-MSD1)

Source: E310306-02

Prepared: 11/01/23 Analyzed: 11/03/23

Benzene	5.24	0.0250	5.00	ND	105	54-133	1.75	20	
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133	1.90	20	
Toluene	5.20	0.0250	5.00	ND	104	61-130	1.96	20	
o-Xylene	5.15	0.0250	5.00	ND	103	63-131	2.10	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	1.82	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	1.91	20	
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344042-BLK1)

Prepared: 11/01/23 Analyzed: 11/02/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

LCS (2344042-BS2)

Prepared: 11/01/23 Analyzed: 11/02/23

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

Matrix Spike (2344042-MS2)

Source: E310305-23

Prepared: 11/01/23 Analyzed: 11/02/23

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			

Matrix Spike Dup (2344042-MSD2)

Source: E310305-23

Prepared: 11/01/23 Analyzed: 11/02/23

Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	3.21	20	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344046-BLK1)

Prepared: 11/01/23 Analyzed: 11/03/23

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

LCS (2344046-BS2)

Prepared: 11/01/23 Analyzed: 11/03/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			

Matrix Spike (2344046-MS2)

Source: E310306-02

Prepared: 11/01/23 Analyzed: 11/03/23

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			

Matrix Spike Dup (2344046-MSD2)

Source: E310306-02

Prepared: 11/01/23 Analyzed: 11/03/23

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.7	70-130	1.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344086-BLK1)

Prepared: 11/03/23 Analyzed: 11/03/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	41.1		50.0		82.3	50-200			

LCS (2344086-BS1)

Prepared: 11/03/23 Analyzed: 11/03/23

Diesel Range Organics (C10-C28)	225	25.0	250		90.1	38-132			
Surrogate: <i>n</i> -Nonane	43.8		50.0		87.6	50-200			

Matrix Spike (2344086-MS1)

Source: E310306-06

Prepared: 11/03/23 Analyzed: 11/03/23

Diesel Range Organics (C10-C28)	220	25.0	250	ND	87.9	38-132			
Surrogate: <i>n</i> -Nonane	42.7		50.0		85.5	50-200			

Matrix Spike Dup (2344086-MSD1)

Source: E310306-06

Prepared: 11/03/23 Analyzed: 11/03/23

Diesel Range Organics (C10-C28)	219	25.0	250	ND	87.7	38-132	0.229	20	
Surrogate: <i>n</i> -Nonane	43.0		50.0		85.9	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344092-BLK1)

Prepared: 11/03/23 Analyzed: 11/03/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	43.1		50.0		86.3	50-200			

LCS (2344092-BS1)

Prepared: 11/03/23 Analyzed: 11/03/23

Diesel Range Organics (C10-C28)	211	25.0	250		84.5	38-132			
Surrogate: <i>n</i> -Nonane	41.2		50.0		82.4	50-200			

Matrix Spike (2344092-MS1)

Source: E310306-24

Prepared: 11/03/23 Analyzed: 11/03/23

Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.9	38-132			
Surrogate: <i>n</i> -Nonane	37.6		50.0		75.1	50-200			

Matrix Spike Dup (2344092-MSD1)

Source: E310306-24

Prepared: 11/03/23 Analyzed: 11/03/23

Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.3	38-132	2.64	20	
Surrogate: <i>n</i> -Nonane	43.5		50.0		86.9	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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Anions by EPA 300.0/9056A

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 (2344117-BLK1)

Prepared: 11/04/23 Analyzed: 11/04/23

Chloride ND 20.0

LCS (2344117-BS1)

Prepared: 11/04/23 Analyzed: 11/04/23

Chloride 248 20.0 250 99.0 90-110

Matrix Spike (2344117-MS1)

Source: E310306-09

Prepared: 11/04/23 Analyzed: 11/06/23

Chloride 293 200 250 ND 117 80-120

Matrix Spike Dup (2344117-MSD1)

Source: E310306-09

Prepared: 11/04/23 Analyzed: 11/06/23

Chloride 305 200 250 ND 122 80-120 3.79 20 M5



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/7/2023 3:12:43PM
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Anions by EPA 300.0/9056A

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 (2344118-BLK1)

Prepared: 11/04/23 Analyzed: 11/06/23

Chloride ND 20.0

LCS (2344118-BS1)

Prepared: 11/04/23 Analyzed: 11/06/23

Chloride 253 20.0 250 101 90-110

Matrix Spike (2344118-MS1)

Source: E310306-26

Prepared: 11/04/23 Analyzed: 11/06/23

Chloride 363 200 250 593 NR 80-120 M2

Matrix Spike Dup (2344118-MSD1)

Source: E310306-26

Prepared: 11/04/23 Analyzed: 11/06/23

Chloride 761 200 250 593 67.2 80-120 70.7 20 M2, R3

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/07/23 15:12
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- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. 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.

Released to Imaging - 5/15/2024 9:13:57 AM

Client: Matador Production Company.		Bill To		Lab Use Only			TAT			EPA Program					
Project: Barry Miller State Com 201H		Attention: Matador Production Company		Lab WO#	Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovengo		Address: on file		E310306	23052-0001					x					
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method								RCRA			
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com									NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com															
Report due by:															

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
9:53	10/30/2023	Soil	1 Jar	FS01 - 1.5'	1						X		
9:07	10/30/2023	Soil	1 Jar	FS03 - 1.5'	2						X		
9:09	10/30/2023	Soil	1 Jar	FS04 - 1.5'	3						X		
9:18	10/30/2023	Soil	1 Jar	FS05 - 1.5'	4						X		
9:19	10/30/2023	Soil	1 Jar	FS06 - 1.5'	5						X		
9:19	10/30/2023	Soil	1 Jar	FS12 - 1'	6						X		
9:21	10/30/2023	Soil	1 Jar	FS13 - 1'	7						X		
10:17	10/30/2023	Soil	1 Jar	SW03 - 0.5'	8						X		
10:27	10/30/2023	Soil	1 Jar	SW04 - 0.5'	9						X		
10:55	10/30/2023	Soil	1 Jar	FS20 - 1'	10						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehafft@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling 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) <i>Steven Muff</i>				Date	Time	Received by: (Signature) <i>Michelle Gough</i>				Date	Time	Lab Use Only Received on ice: (Y) / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gough</i>				10/31/23	0700	Relinquished by: (Signature) <i>Andrew Russo</i>				10/31/23	1100	
Relinquished by: (Signature) <i>Andrew Russo</i>				10/31/23	1545	Received by: (Signature) <i>Lacey</i>				10/31/23	1730	
Relinquished by: (Signature) <i>Andrew Russo</i>				10/31/23	2400	Received by: (Signature) <i>Lacey</i>				11/1/23	8:30	

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 30 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.



Received by OCD: 11/18/2023 1:13:54 PM

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Client: Matador Production Company.		Bill To		Lab Use Only		TAT			EPA Program					
Project: Barry Miller State Com 201H		Attention: Matador Production Company		Lab WO# E310306		Job Number 23052-001			1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		City, State, Zip:		Analysis and Method						RCRA		
Address: 3122 National Parks Hwy		Phone: (337)319-8398		Email: clinton.talley@matadorresources.com										
City, State, Zip: Carlsbad NM, 88220														
Phone: 575-988-0055														
Email: agiovengo@ensolum.com														
Report due by:														

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
10:57	10/30/2023	Soil	1 Jar	FS21 - 1'	11						X		
11:12	10/30/2023	Soil	1 Jar	SW08 - 0.5'	12						X		
10:46	10/30/2023	Soil	1 Jar	FS16 - 1'	13						X		
11:41	10/30/2023	Soil	1 Jar	FS17 - 1'	14						X		
10:48	10/30/2023	Soil	1 Jar	FS18 - 1'	15						X		
10:49	10/30/2023	Soil	1 Jar	FS19 - 1'	16						X		
11:57	10/30/2023	Soil	1 Jar	FS24 - 1'	17						X		
12:50	10/30/2023	Soil	1 Jar	FS25 - 1.5'	18						X		
11:49	10/30/2023	Soil	1 Jar	FS26 - 1'	19						X		
11:43	10/30/2023	Soil	1 Jar	FS27 - 1'	20						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehft@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling 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) <i>Ashley Giovengo</i>	Date 10/31/23	Time 0700	Received by: (Signature) <i>Nichelle Gump</i>	Date 10/31/23	Time 1100	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) <i>Nichelle Gump</i>	Date 10/31/23	Time 1545	Received by: (Signature) <i>Melissa Russo</i>	Date 10/31/23	Time 1730	
Relinquished by: (Signature) <i>Melissa Russo</i>	Date 10/31/23	Time 2400	Received by: (Signature) <i>Darcy</i>	Date 11/1/23	Time 8:30	

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 30 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.



Released to Imaging: 5/15/2024 9:13:57 AM

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Received by OCD: 11/18/2023 1:13:54 PM

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Client: Matador Production Company.
 Project: Barry Miller State Com 201H
 Project Manager: Ashley Giovengo
 Address: 3122 National Parks Hwy
 City, State, Zip: Carlsbad NM, 88220
 Phone: 575-988-0055
 Email: agiovengo@ensolum.com
 Report due by:

Bill To
 Attention: Matador Production Company
 Address: on file
 City, State, Zip:
 Phone: (337)319-8398
 Email: clinton.talley@matadorresources.com

Lab Use Only
 Lab WO# E.3103010 Job Number 23052-0001
TAT
 1D 2D 3D Standard x

EPA Program
 CWA SDWA
 RCRA
 State
 NM CO UT AZ TX
 x

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
11:46	10/30/2023	Soil	1 Jar	FS28 - 1'	21						X		
11:56	10/30/2023	Soil	1 Jar	FS29 - 1'	22						X		
12:00	10/30/2023	Soil	1 Jar	FS30 - 1'	23						X		
13:31	10/30/2023	Soil	1 Jar	FS31 - 1'	24						X		
13:34	10/30/2023	Soil	1 Jar	FS22 - 1'	25						X		
14:16	10/30/2023	Soil	1 Jar	FS23 - 2.5'	26						X		
											X		
											X		
											X		
											X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehafft@ensolum.com

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

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) <u>[Signature]</u>	Date <u>10/31/23</u>	Time <u>0700</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10-31-23</u>	Time <u>1100</u>	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-31-23</u>	Time <u>1545</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10-31-23</u>	Time <u>1730</u>	
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>10-31-23</u>	Time <u>2400</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>11/1/23</u>	Time <u>8:30</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 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: 11/1/2023 12:05:13PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 10/30/23 08:30	Work Order ID: E310306
Phone: (972) 371-5200	Date Logged In: 10/31/23 14:53	Logged In By: Lacey Rodgers
Email: agiovnngo@ensolum.com	Due Date: 11/03/23 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Barry Miller State Com #201H

Work Order: E311019

Job Number: 23052-0001

Received: 11/2/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/8/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/8/23



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

Project Name: Barry Miller State Com #201H
Workorder: E311019
Date Received: 11/2/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/2/2023 8:15:00AM, under the Project Name: Barry Miller State Com #201H.

The analytical test results summarized in this report with the Project Name: Barry Miller State Com #201H 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

Alexa Michaels
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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: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/08/23 13:18
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS32 - 1.5'	E311019-01A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS33 - 1.5'	E311019-02A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS34 - 1'	E311019-03A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS35 - 1'	E311019-04A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS36 - 1'	E311019-05A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS37 - 1'	E311019-06A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS38 - 1'	E311019-07A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS39 - 1'	E311019-08A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS40 - 1'	E311019-09A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS41 - 1'	E311019-10A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS42 - 1'	E311019-11A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
FS43 - 1'	E311019-12A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
SW05 - 0.5'	E311019-13A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
SW06 - 0.5'	E311019-14A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.
SW07 - 0.5'	E311019-15A	Soil	10/31/23	11/02/23	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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FS32 - 1.5'

E311019-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.7 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>		98.0 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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FS33 - 1.5'

E311019-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.2 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.8 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		92.5 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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FS34 - 1'
E311019-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.2 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.4 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		96.0 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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FS35 - 1'
E311019-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.5 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.8 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		98.8 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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FS36 - 1'
E311019-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.0 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.2 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		99.0 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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FS37 - 1'

E311019-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.6 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.7 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		96.6 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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FS38 - 1'

E311019-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.3 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>		98.6 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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FS39 - 1'
E311019-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.2 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		96.8 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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FS40 - 1'
E311019-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.6 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.8 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>		95.8 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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FS41 - 1'
E311019-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		93.3 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.2 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		96.7 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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FS42 - 1'

E311019-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.3 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.7 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		96.0 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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FS43 - 1'
E311019-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.8 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.6 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		98.0 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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SW05 - 0.5'

E311019-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
	85.8 %	50-200		11/04/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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SW06 - 0.5'

E311019-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.4 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.0 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>		96.8 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	298	200	10	11/06/23	11/07/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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SW07 - 0.5'

E311019-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Benzene	ND	0.0250	1	11/02/23	11/05/23	
Ethylbenzene	ND	0.0250	1	11/02/23	11/05/23	
Toluene	ND	0.0250	1	11/02/23	11/05/23	
o-Xylene	ND	0.0250	1	11/02/23	11/05/23	
p,m-Xylene	ND	0.0500	1	11/02/23	11/05/23	
Total Xylenes	ND	0.0250	1	11/02/23	11/05/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.9 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2344071
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/02/23	11/05/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.0 %	70-130	11/02/23	11/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2344122
Diesel Range Organics (C10-C28)	ND	25.0	1	11/04/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/04/23	11/04/23	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	11/04/23	11/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2345013
Chloride	ND	200	10	11/06/23	11/07/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344071-BLK1)

Prepared: 11/02/23 Analyzed: 11/05/23

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	7.46		8.00		93.3	70-130			

LCS (2344071-BS1)

Prepared: 11/02/23 Analyzed: 11/05/23

Benzene	5.22	0.0250	5.00		104	70-130			
Ethylbenzene	5.00	0.0250	5.00		100	70-130			
Toluene	5.21	0.0250	5.00		104	70-130			
o-Xylene	5.14	0.0250	5.00		103	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			

Matrix Spike (2344071-MS1)

Source: E311019-02

Prepared: 11/02/23 Analyzed: 11/05/23

Benzene	5.44	0.0250	5.00	ND	109	54-133			
Ethylbenzene	5.20	0.0250	5.00	ND	104	61-133			
Toluene	5.42	0.0250	5.00	ND	108	61-130			
o-Xylene	5.33	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.32		8.00		91.6	70-130			

Matrix Spike Dup (2344071-MSD1)

Source: E311019-02

Prepared: 11/02/23 Analyzed: 11/05/23

Benzene	5.06	0.0250	5.00	ND	101	54-133	7.34	20	
Ethylbenzene	4.82	0.0250	5.00	ND	96.4	61-133	7.54	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	7.47	20	
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131	7.41	20	
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131	7.50	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.3	63-131	7.47	20	
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.8	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344071-BLK1)

Prepared: 11/02/23 Analyzed: 11/05/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			

LCS (2344071-BS2)

Prepared: 11/02/23 Analyzed: 11/05/23

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.4	70-130			

Matrix Spike (2344071-MS2)

Source: E311019-02

Prepared: 11/02/23 Analyzed: 11/05/23

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2344071-MSD2)

Source: E311019-02

Prepared: 11/02/23 Analyzed: 11/05/23

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.2	70-130	6.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2344122-BLK1)

Prepared: 11/04/23 Analyzed: 11/04/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.1		50.0		104	50-200			

LCS (2344122-BS1)

Prepared: 11/04/23 Analyzed: 11/04/23

Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			

Matrix Spike (2344122-MS1)

Source: E311019-05

Prepared: 11/04/23 Analyzed: 11/04/23

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	51.4		50.0		103	50-200			

Matrix Spike Dup (2344122-MSD1)

Source: E311019-05

Prepared: 11/04/23 Analyzed: 11/04/23

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.4	38-132	3.30	20	
Surrogate: n-Nonane	50.9		50.0		102	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/8/2023 1:18:32PM
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Anions by EPA 300.0/9056A

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 (2345013-BLK1)

Prepared: 11/06/23 Analyzed: 11/07/23

Chloride	ND	20.0							
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LCS (2345013-BS1)

Prepared: 11/06/23 Analyzed: 11/07/23

Chloride	247	20.0	250		98.8	90-110			
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Matrix Spike (2345013-MS1)

Source: E311019-05

Prepared: 11/06/23 Analyzed: 11/08/23

Chloride	277	200	250	ND	111	80-120			
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Matrix Spike Dup (2345013-MSD1)

Source: E311019-05

Prepared: 11/06/23 Analyzed: 11/07/23

Chloride	279	200	250	ND	112	80-120	0.765	20	
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Barry Miller State Com #201H Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 11/08/23 13:18
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: Matador Production Company.		Bill To		Lab Use Only		TAT			EPA Program					
Project: Barry Miller State Com 201H		Attention: Matador Production Company		Lab WO# E311019		Job Number 23052-0001			1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		E311019		23052-0001						x		
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method								RCRA		
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398												
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com												
Email: agiovengo@ensolum.com														
Report due by:														

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State					Remarks				
													NM	CO	UT	AZ	TX					
													x									
12:02	10/31/2023	Soil	1 Jar	FS32 - 1.5'	1						X											
12:03	10/31/2023	Soil	1 Jar	FS33 - 1.5'	2						X											
8:50	10/31/2023	Soil	1 Jar	FS34 - 1'	3						X											
11:57	10/31/2023	Soil	1 Jar	FS35 - 1'	4						X											
8:56	10/31/2023	Soil	1 Jar	FS36 - 1'	5						X											
8:58	10/31/2023	Soil	1 Jar	FS37 - 1'	6						X											
9:04	10/31/2023	Soil	1 Jar	FS38 - 1'	7						X											
9:06	10/31/2023	Soil	1 Jar	FS39 - 1'	8						X											
9:08	10/31/2023	Soil	1 Jar	FS40 - 1'	9						X											
9:13	10/31/2023	Soil	1 Jar	FS41 - 1'	10						X											

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling 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) <i>[Signature]</i>	Date 11/1/23	Time 0700	Received by: (Signature) <i>Michelle Gayle</i>	Date 11-1-23	Time 1040	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gayle</i>	Date 11-1-23	Time 1530	Received by: (Signature) <i>Andrea Russo</i>	Date 11-1-23	Time 1730	
Relinquished by: (Signature) <i>Andrea Russo</i>	Date 11.1.23	Time 2300	Received by: (Signature) <i>Clayton Man</i>	Date 11-2-23	Time 8:15	

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 30 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: Matador Production Company.		Bill To		Lab Use Only		TAT			EPA Program				
Project: Barry Miller State Com 201H		Attention: Matador Production Company		Lab WO# E311019		Job Number 230520001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		E311019		230520001					x		
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method								RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398											
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com											
Email: agiovengo@ensolum.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
11:44	10/31/2023	Soil	1 Jar	FS42 - 1'	11						X		
11:47	10/31/2023	Soil	1 Jar	FS43 - 1'	12						X		
10:04	10/31/2023	Soil	1 Jar	SW05 - 0.5'	13						X		
10:09	10/31/2023	Soil	1 Jar	SW06 - 0.5'	14						X		
10:14	10/31/2023	Soil	1 Jar	SW07 - 0.5'	15						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. **Sampled by:** Ethan Haft & Cole Burton

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) <i>Ethan Haft</i>	Date 11/1/23	Time 0700	Received by: (Signature) <i>Michelle Conyer</i>	Date 11-01-23	Time 1040	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Conyer</i>	Date 11-1-23	Time 1530	Received by: (Signature) <i>Andrea Messo</i>	Date 11-1-23	Time 1730	
Relinquished by: (Signature) <i>Andrea Messo</i>	Date 11-1-23	Time 2300	Received by: (Signature) <i>Caitlin Mar</i>	Date 11-2-23	Time 8:15	

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 30 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: 11/2/2023 11:05:22AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.	Date Received: 11/02/23 08:15	Work Order ID: E311019
Phone: (972) 371-5200	Date Logged In: 11/01/23 17:14	Logged In By: Caitlin Mars
Email: agiovnngo@ensolum.com	Due Date: 11/08/23 17:00 (4 day TAT)	

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX G

Regulatory Correspondence

From: [Hamlet, Robert, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: clinton.talley@matadorresources.com; [Cole Burton](#); [Chad Hamilton](#); [Wells, Shelly, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] Matador Production - Sampling Variance - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)
Date: Thursday, August 31, 2023 11:49:16 AM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

You don't often get email from robert.hamlet@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Ashley,

The variance is approved for collecting 5-point composite area floor samples to represent each 400 ft² area. Sidewall confirmation samples will still need to be collected every 200 ft² to define the edge of the release area. Please include this e-mail correspondence in the remediation and/or closure report.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, August 31, 2023 10:37 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Matador Production - Sampling Variance - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Thursday, August 31, 2023 10:31 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Spills@slo.state.nm.us

Cc: clinton.talley@matadorresources.com; Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>

Subject: [EXTERNAL] Matador Production - Sampling Variance - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)

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

Hello,

Matador Production (Matador) is requesting a sampling variance at the Barry Miller State Com 201H site (Incident Numbers nAPP2319455228 & nAPP2319663541). On July 12, 2023, a 12" coupling on a water transfer pipeline header failed, resulting in the release of 110 barrels (bbls) of produced water off-pad. On July 18, 2023, a second release occurred due to a line burst and 20.85 bbls of produced water was released onto an additional area off-pad. The impacted areas measure approximately 12,292 square feet (sq. ft.) and 4,682 sq. ft. respectively. A desktop review for potential site receptors and delineation sampling to the strictest closure criteria have been completed for both releases. According to the desktop review, the closest permitted groundwater well with depth to ground water data is New Mexico Office of the State Engineer (NMOSE) well, C 04702 POD2 with a depth to groundwater measurement of 46 ft. bgs. The well is located 1.43 miles southwest of the site and the site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area).

Laboratory analytical results from delineation soil samples indicated that chloride concentrations were in compliance with the reclamation requirement (19.15.29.13 NMAC) at 1-foot below ground surface (bgs). Matador intends to excavate both spill areas in accordance with the reclamation requirement and conduct final confirmation sampling at the conclusion of both excavations. Due to the size (16,974 sq. ft) and shallow nature of both release extents, Matador would like to request a sampling variance of every 400 sq. ft on confirmation floor samples and every 400 feet on confirmation sidewall samples. Matador believes this *variance request* will provide equal or better protection of public health, the environment, and groundwater and respectfully requests approval for both incident numbers (nAPP2319455228 & nAPP2319663541).

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

From: [Hamlet, Robert, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: [Cole Burton](#); [Chad Hamilton](#); [Ethan Haft](#); [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#); [Wells, Shelly, EMNRD](#)
Subject: Extension Approval - Matador Production - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)
Date: Thursday, October 5, 2023 1:29:42 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

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[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2319455228 & NAPP2319663541**

Ashley,

Your request for an extension to **December 4th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, October 5, 2023 9:29 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Matador Production - Extension Request - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Thursday, October 5, 2023 8:17 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Eco@slo.state.nm.us
Cc: clinton.talley@matadorresources.com; Cole Burton <cburton@ensolum.com>; Chad Hamilton

<chamilton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>

Subject: [EXTERNAL] Matador Production - Extension Request - Barry Miller State Com 201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)

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

All,

Matador is requesting an extension of the current deadline of October 05, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Barry Miller State Com 201H (Incident Number nAPP2319455228) and an extension of the current deadline of October 16, 2023, for the second Barry Miller State Com 201H release (Incident Number nAPP2319663541). The first release at the Barry Miller State Com 201H occurred on July 12, 2023, and as a result, 110 barrels (bbls) of produced water were released into a pasture area off-pad. The second release occurred on July 18, 2023, and as a result, 20.85 bbls of produced water were released onto an adjacent area off-pad. Since both releases occurred in area's off-pad and on State Trust Land, an ARMS review for the Site was completed by Beaver Creek Archaeology. During the ARMS review, it was determined that the first release impacted an area that had not been surveyed for cultural properties and in order to comply with the *Cultural Properties Protection Rule* (19.2.24 NMAC), a survey would need to be completed prior to excavation and remediation of the subject area release. The archaeological survey was completed, the cultural resource findings were negative for the release area. An initial site assessment and delineation sampling has been completed for both releases and the excavation is currently scheduled with third-party contractors. Due to the time spent completing the archaeological survey and the timeline that is needed to complete the excavation of both releases, conduct confirmation sampling, review laboratory analytical data, and to submit a remediation work plan or closure report, Matador hereby requests a 60-day extension of the aforementioned deadlines to December 04, 2023.

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

From: [Rodgers, Scott, EMNRD](#)
To: [Ashley Giovengo](#); spills@slo.state.nm.us; clinton.talley@matadorresources.com; [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Cc: [Cole Burton](#); [Ethan Haft](#); [Chad Hamilton](#)
Subject: RE: [EXTERNAL] 48-hour Confirmation Sampling Notification - Matador Production Company - Barry Miller State Com #201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)
Date: Friday, October 20, 2023 10:16:33 AM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Friday, October 20, 2023 10:14 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; spills@slo.state.nm.us; clinton.talley@matadorresources.com
Cc: Cole Burton <cburton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] 48-hour Confirmation Sampling Notification - Matador Production Company - Barry Miller State Com #201H - Incident Numbers (nAPP2319455228 & nAPP2319663541)

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

Hello,

We intend to collect confirmation samples at Matador Production Company's, Barry Miller State Com #201H site (Incident Numbers *nAPP2319455228* & *nAPP2319663541*) beginning on Thursday, October 26, 2023, at 09:00 am MST through Friday, November 03, 2023.

Please let us know if you plan to be onsite to oversee the sampling.

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 286959

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 286959
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. The site will need to be reseeded in the first favorable growing season following closure of the site pursuant to 19.15.29.13 NMAC.	3/15/2024
bhall	A revegetation report will need to be submitted as soon as the revegetation is complete and meet the requirements of 19.15.29.13 NMAC.	3/15/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeded activities, inspections, and final pictures when revegetation is achieved.	3/15/2024
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	3/15/2024