



July 17, 2024

New Mexico Oil Conservation Division

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

**Re: Deferral Request
Dagger State TB
Incident Number nAPP2401854801
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request* to document excavation and soil sampling activities performed at the Dagger State TB (Site). The purpose of the excavation and soil sampling activities was to address impacts to soil following a release of crude oil and produced water into a lined containment, onto the well pad and nearby pasture. Based on field observation following excavation, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Deferral Request*, describing Site assessment and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2401854801 until the Site is reconstructed and/or the pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit L, Section 30, Township 21 South, Range 33 East, in Lea County, New Mexico (32.4493001°, -103.6162901°) and is associated with oil and gas exploration and production operations on State Land managed by the New Mexico State Land Office (NMSLO).

On January 17, 2024, a gasket on a heater treater failed, which resulted in approximately 40 barrels (bbls) of crude oil and 20 bbls of produced water was released in the separator containment, on to the pad and nearby pasture; 10 bbls of crude oil and 10 bbls of produced water was recovered immediately upon discovery of the release. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via email and submitted a Release Notification Form C-141 (Form C-141) via web portal on January 22, 2024, and the release was assigned Incident Number nAPP2401854801.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on the initial C-141 application subsection, Site Characterization.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-1882 POD1, with a depth to water measurement of greater than 106 feet below ground surface (bgs). The well is located 0.67 miles northeast of the Site. All wells used

Matador Production Company
Dagger State TB
Deferral Request

to establish depth to groundwater are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 2.1 miles northeast 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 not within 1,000 feet of a freshwater well or spring. The Site is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential 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

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On January 31, 2024, Ensolum personnel were onsite to map the release extent and conduct a Liner Integrity Inspection. It was determined the liner remains intact and had to the ability to contain the release in question. On March 25, 2024, Ensolum personnel returned to the Site to begin delineation sampling of the release area. Delineation soil samples SS01 through SS08 were collected at the ground surface (0 feet bgs) to verify the lateral extent of the release area. Six borehole samples, BH01 through BH06, were advanced via hand auger to depths ranging from 1-foot to 3 feet bgs to verify the vertical extent of the release area. Soil samples were field screened for chloride utilizing Hach® chloride QuanTab® test strips and Mohr's titration method. All boreholes and delineation soil sample locations are depicted on Figure 2. A photographic log including delineation and excavation activities can be found in Appendix B. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

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

Prior to beginning excavation activities at the Site, an archaeological inspection was conducted by Beaver Creek Archaeology (NMCRIS Activity number: 155049). Due to a lack of cultural findings within 100 feet of the Site, and existing ground disturbance on pad, no additional cultural review was recommended. The project was approved to proceed as planned under the finding that no historical properties would be affected (see Appendix D). The survey determined the release area was negative for cultural properties, and thus, Matador has taken every reasonable effort to follow the Cultural Properties Protections Rule (CPP).

Beginning on May 28 through June 7, 2024, Ensolum personnel were on the Site to complete excavation of the accessible release area. Excavation of the release area was completed with a backhoe, loader,

Matador Production Company
Dagger State TB
Deferral Request

hydro-vacuum truck, and hand tools to depths ranging from the ground surface to 5 feet bgs. Following removal of impacted soil, Ensolum personnel collected 87, 5-point composite soil samples (FS01 through FS87) representing up to 200 square feet from the excavation floor and 3 from the sidewall. 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. Three sidewall samples (SW01 through SW03) were collected from the edge of the release extent at depths ranging from the ground surface to 5 feet bgs. One borehole (BH06) was advanced within the area of requested deferral. Excavation confirmation floor, sidewall, and borehole soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

A total of approximately 954 cubic yards of impacted soil was removed during excavation activities to the maximum extent practicable (MEP). The final excavation extent measured approximately 13,909 square feet. The impacted soil was removed during the excavation activities and was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing. Following deferral, Matador intends to complete remediation of the on-pad and off-pad spill areas in accordance with the site Closure Criteria and according to the reclamation requirement following major Site reconstruction or reclamation of the production pad.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS01 through SS08) collected at 0 feet bgs were all in compliance with the strictest Closure Criteria for the Site per NMOCD Table I. Laboratory analytical results for all excavation floor confirmation samples (FS01 through FS30, FS33 through FS86) were in compliance with the Closure Criteria for the Site. Confirmation samples FS31, FS32, and FS87 exceeded the Site Closure Criteria for TPH. These sample locations are in the direct vicinity of electrical power poles and supports, limiting further excavation. Vertical delineation in compliance with the strictest Closure Criteria was achieved in BH01 through BH05 at a depth of 1-foot bgs and BH06 at a depth of 2 feet bgs.

Excavation floor confirmation samples (FS04 through FS29 and FS33 through FS86) comprise the extent of the release off-pad. Laboratory analytical results for all off-pad excavation floor confirmation samples were in compliance with the strictest Closure Criteria per 19.15.29.13.D (1) NMAC. The laboratory analytical results are summarized in Tables 1, 2, and 3 and the complete laboratory analytical reports are included in Appendix E. All sampling notifications to NMOCD and additional correspondence is included in Appendix F.

DEFERRAL REQUEST

Matador is requesting deferral of final remediation due to the presence of active production equipment, process piping, the supports beneath them, preventing full excavation of impacted soil. The estimated area of remaining impacted soil measures approximately 1,175 square feet, and assuming a depth of up to 2 feet bgs under the electrical panels and poles based on the analytical results from surrounding confirmation samples and 2 feet bgs in sample area FS32 based on delineation borehole BH06, a total of approximately 87 cubic yards of impacted soil remains in place. Soil in the vicinity of floor confirmation soil samples FS31, FS32, and FS87 are included in this deferment request due to the proximity of electrical line poles and supports and safety concerns of excavating deeper, which has the potential to destabilize the equipment and harm workers and/or the environment. The deferral area and delineation soil samples are depicted on Figure 4.

Matador Production Company
Dagger State TB
Deferral Request

Impacted soil is limited to the area beneath active electrical line poles and supports, where remediation would require a major facility deconstruction. The release extent has been laterally delineated by delineation soil samples SS01 through SS08 at 0 feet bgs and vertically delineated by borehole samples BH01 through BH05 at 1-foot bgs, and borehole sample BH06 at 2 feet bgs.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 106 feet bgs, and all accessible impacted soil was removed to the MEP during the excavation activities. Any gross impacts were removed via scraping of the ground surface. Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Matador requests deferral of final remediation for Incident Number nAPP2401854801 until final reclamation of the well pad or major construction, whichever comes first.

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 Scientist



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

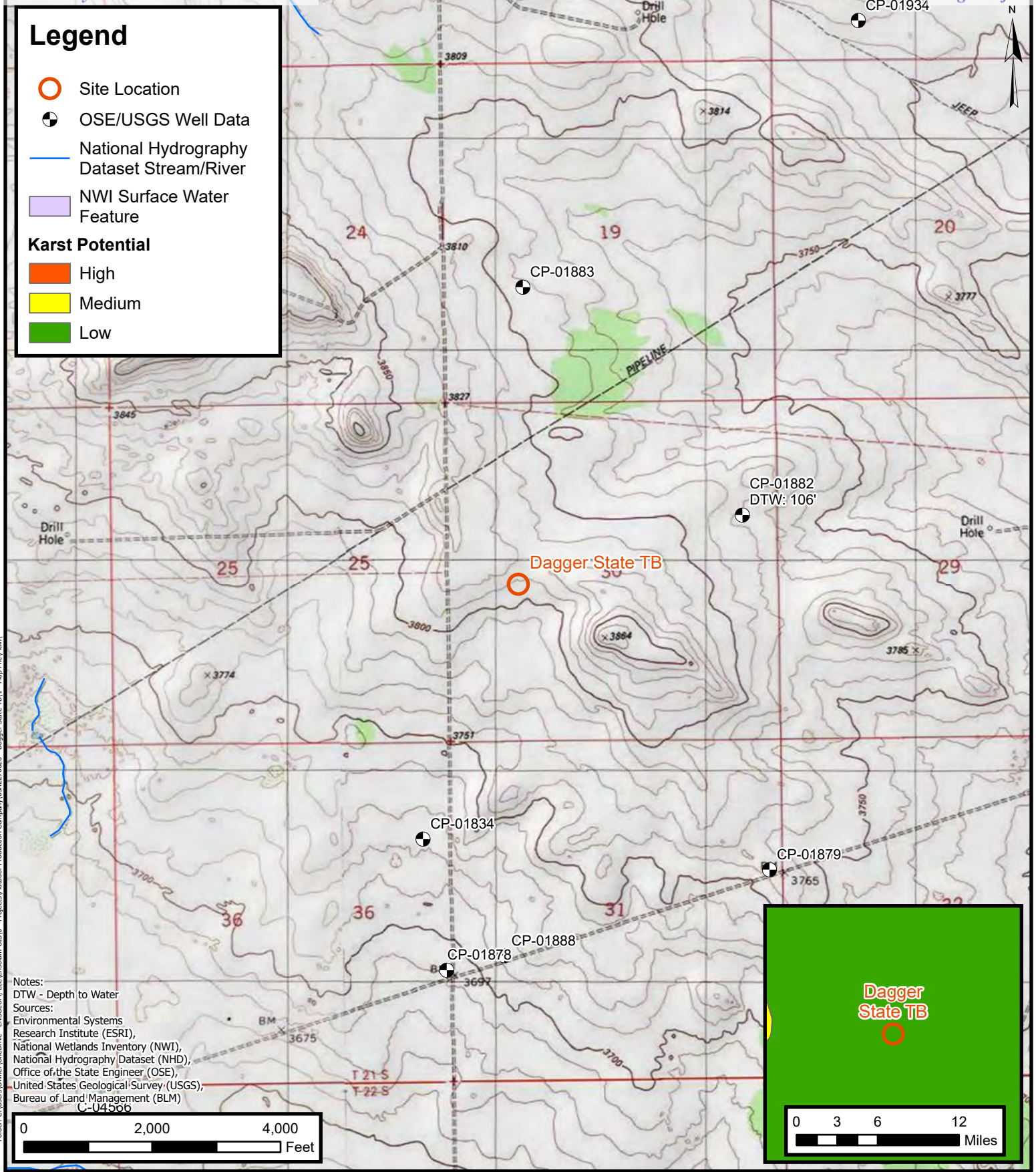
cc: Clinton Talley, Matador Production Company
New Mexico State Land Office

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Delineation Soil Sample Analytical Results
Table 2	Excavation Soil Sample Analytical Results
Table 3	Sidewall Soil Sample Analytical Results
Appendix A	Well Log and Record
Appendix B	Photographic Log
Appendix C	Lithologic Soil Sampling Logs
Appendix D	NMSLO Cultural Resource Cover Sheet
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Correspondence

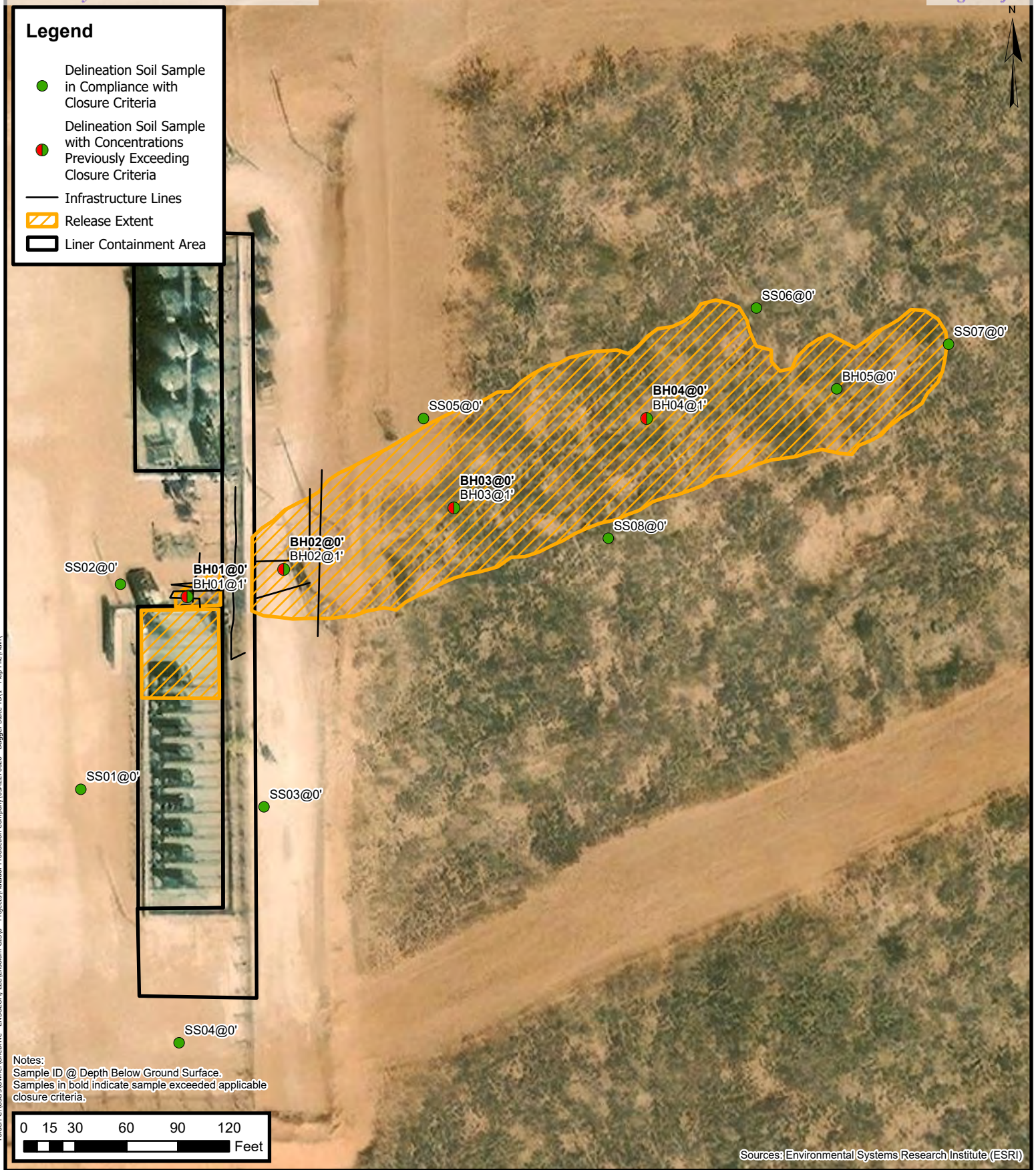


FIGURES



Site Receptor Map
Matador Production Company
Dagger State TB
Incident Number: nAPP2401854801
Unit L, Section 30, T 21S, R 33E
Lea County, New Mexico

FIGURE
1



Delineation Soil Sample Locations

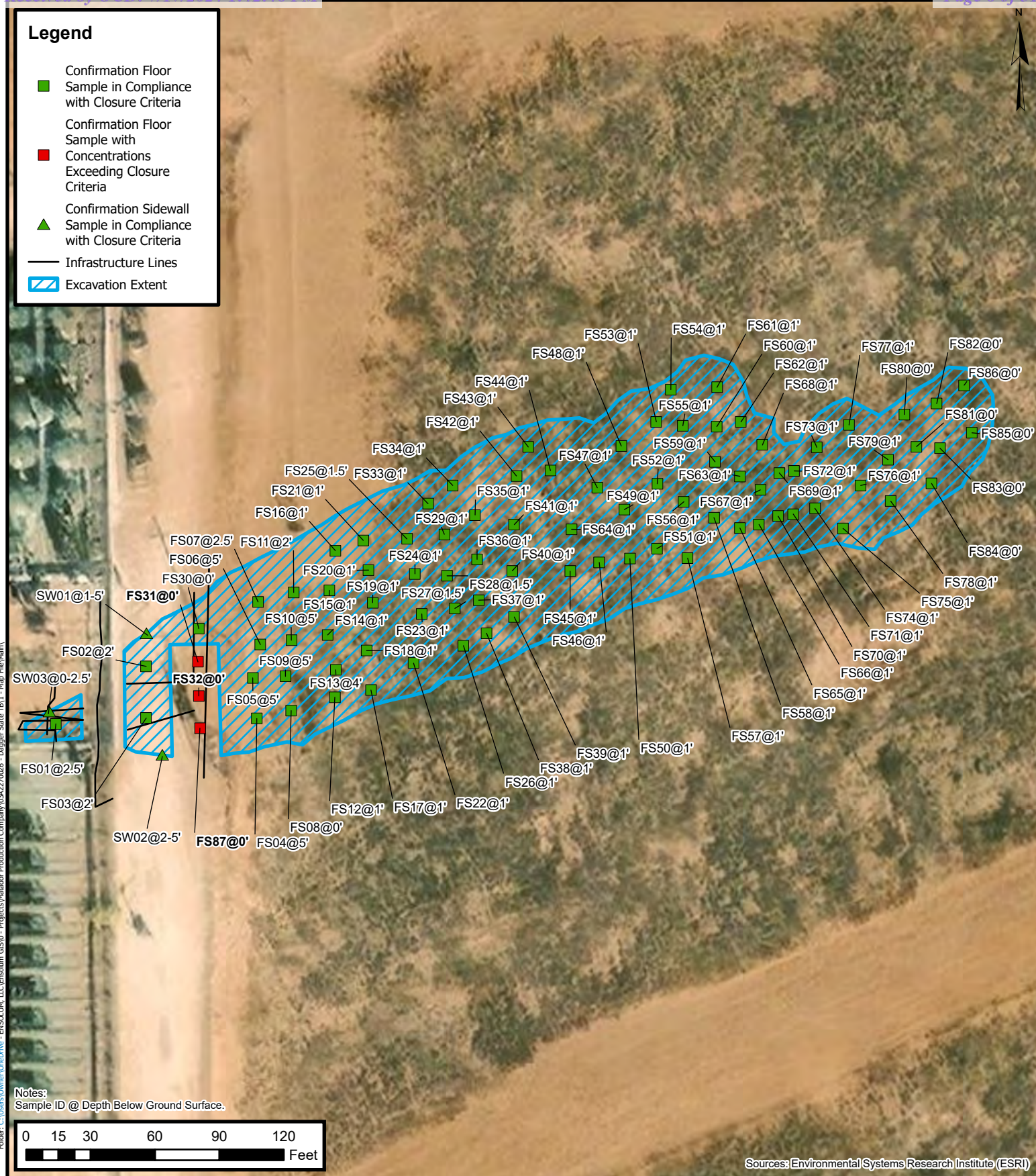
Matador Production Company
Dagger State TB
Incident Number: nAPP2401854801
Unit L, Section 30, T 21S, R 33E
Lea County, New Mexico

FIGURE

2

Legend

- Confirmation Floor
Sample in Compliance
with Closure Criteria
- Confirmation Floor
Sample with
Concentrations
Exceeding Closure
Criteria
- Confirmation Sidewall
Sample in Compliance
with Closure Criteria
- Infrastructure Lines
- Excavation Extent



Confirmation Soil Sample Locations

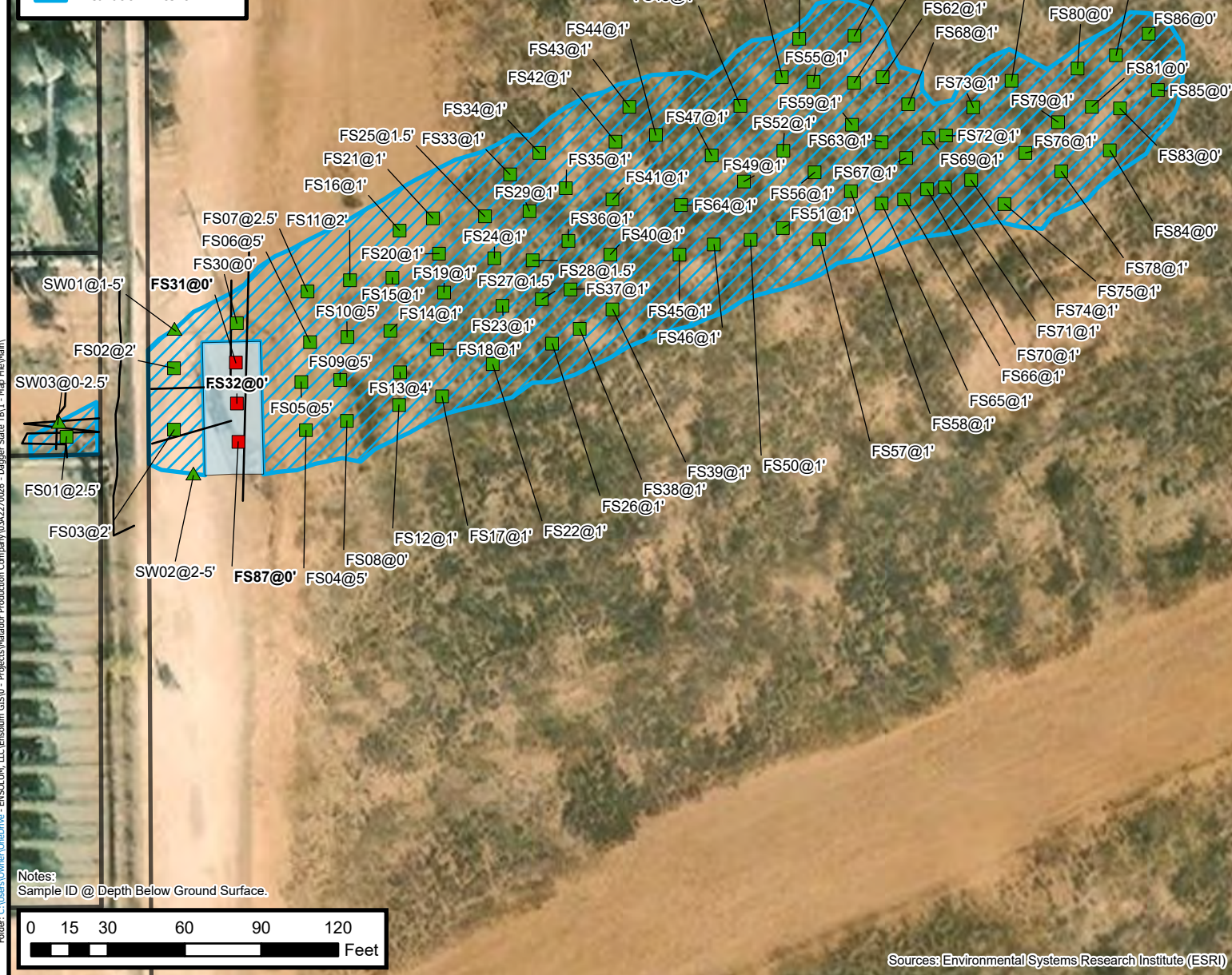
Matador Production Company
Dagger State TB
Incident Number: nAPP2401854801
Unit L, Section 30, T 21S, R 33E
Lea County, New Mexico

FIGURE

3

Legend

- Confirmation Floor
- Sample in Compliance with Closure Criteria
- Confirmation Floor Sample with Concentrations Exceeding Closure Criteria
- Confirmation Sidewall Sample in Concentrations Exceeding Closure Criteria
- Infrastructure Lines
- Liner Containment Area
- Area of Requested Deferral
- Excavation Extent

**Area of Requested Deferral**

Matador Production Company
Dagger State TB
Incident Number: nAPP2401854801
Unit L, Section 30, T 21S, R 33E
Lea County, New Mexico

FIGURE**4**



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Dagger State TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	1/31/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	383
SS02	1/31/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	29.9
SS03	1/31/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	319
SS04	1/31/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	76.6
SS05	1/31/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
SS06	1/31/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
SS07	1/31/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
SS08	1/31/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
BH01	3/25/2024	0	<0.0250	<0.0250	<20.0	26.3	<50.0	26.3	26.3	2,790
BH01	3/25/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	66.1
BH02	3/25/2024	0	<0.0250	7.007	117	5,280	1,900	5,397	7,297	2,090
BH02	3/25/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	25.3
BH03	3/25/2024	0	<0.0250	<0.0250	<20.0	2,550	1,380	2,550	3,930	406
BH03	3/25/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	21.0
BH04	3/25/2024	0	<0.0250	<0.0250	<20.0	130	91.7	130	221.7	67.5
BH04	3/25/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
BH05	3/25/2024	0	<0.0250	<0.0250	<20.0	36.3	<50.0	36.3	36.3	31.4
BH05	3/25/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
BH06	6/5/2024	0	<0.0250	<0.0250	<20.0	12,400	8,340	12,400	20,740	5,430
BH06	6/5/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
BH06	6/5/2024	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey - text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Dagger State TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Soil Samples										
FS01	6/7/2024	2.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	277.0
FS02	6/6/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	52.9
FS03	6/5/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	28.0
FS04	6/7/2024	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS05	6/7/2024	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS06	6/7/2024	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	88.5
FS07	6/7/2024	2.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	76.4
FS08	6/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	139.0
FS09	6/7/2024	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	128.0
FS10	6/7/2024	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	49.7
FS11	6/7/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	107.0
FS12	6/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	26.6
FS13	6/6/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	27.8
FS14	6/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	55.3
FS15	6/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	38.4
FS16	6/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	39.9
FS17	6/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS18	6/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	97.8
FS19	6/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	38.5
FS20	6/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	93.5
FS21	6/6/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	20.0
FS22	6/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS23	6/7/2024	1	<0.0250	<0.0250	<20.0	38.7	<50.0	<20.0	38.7	39.0
FS24	6/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	30.4
FS25	6/10/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	31.5
FS26	6/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS27	6/10/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	36.0
FS28	6/10/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS29	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	50.8
FS30	6/21/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	264.0
FS31	6/21/2024	0	<0.0250	<0.0250	<20.0	306.0	118.0	306.0	424.0	589.0
FS32	6/21/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,100



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS

Dagger State TB
Matador Production Company
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Soil Samples										
FS33	6/5/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	28.1
FS34	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	30.8
FS35	6/5/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	22.9
FS36	6/4/2024	1	<0.0250	<0.0250	<20.0	25.7	50.6	25.7	76.3	31.9
FS37	6/5/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS38	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS39	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	25.6
FS40	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS41	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	22.2
FS42	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS43	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS44	6/4/2024	1	<0.0250	<0.0250	<20.0	39.0	54.5	39.0	93.5	47.4
FS45	6/5/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	37.8
FS46	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	22.2
FS47	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS48	6/5/2024	1	<0.0250	<0.0250	<20.0	38.0	60.6	38.0	98.6	43.8
FS49	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS50	6/4/2024	1	<0.0250	<0.0250	<20.0	28.4	<50.0	28.4	28.4	33.3
FS51	6/4/2024	1	<0.0250	<0.0250	<20.0	29.5	<50.0	29.5	29.5	35.4
FS52	6/4/2024	1	<0.0250	<0.0250	<20.0	27.9	<50.0	27.9	27.9	20.9
FS53	6/4/2024	1	0.0	0.1	<20.0	<25.0	<50.0	<20.0	<20.0	42.7
FS54	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS55	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS56	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	41.5
FS57	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	29.7
FS58	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS59	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	34.4
FS60	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS61	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS62	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS63	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS64	6/6/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	28.2



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Dagger State TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Soil Samples										
FS65	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS66	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS67	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS68	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS69	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	22.7
FS70	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	20.1
FS71	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS72	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS73	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS74	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS75	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS76	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS77	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS78	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS79	6/4/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS80	6/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS81	6/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS82	6/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS83	6/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS84	6/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS85	6/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS86	6/3/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS87	6/21/2024	0	<0.0250	0.206	<20.0	2,740	709	2,740	3,449	1,230

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

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

<": Laboratory Analytical result is less than reporting limit



TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
 Dagger State TB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Sidewall Soil Samples										
SW01	6/7/2024	1-5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	75.4
SW02	6/7/2024	2-5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	84.8
SW03	6/7/2024	0-2.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	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

Well Log and Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1882			
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700			
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Suitt 950				CITY Houston	STATE TX	ZIP 77077	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 27	SECONDS 7.70	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
	LATITUDE	103	36	17.7	W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SE NE Sec. 30 T21S R33E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 10/06/2021	DRILLING ENDED 10/07/2021	DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 106	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a			
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	106	±6.5	Boring- HSA	-	-	-	-
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						


FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	CP-1882	POD NO.	1	TRN NO.	699678
LOCATION	21S. 33E. 30.242			WELL TAG ID NO.	
					PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	9	9	Sand, Fine-grained, poorly graded, Red	Y ✓ N	
	9	19	10	Caliche, with fine-grained sand, White/Tan	Y ✓ N	
	19	69	50	Sand, Fine-grained, poorly graded, Tan/ Brown	Y ✓ N	
	69	79	10	Sand, Fine-grained, poorly graded with clay, Reddish Brown	Y ✓ N	
	79	106	27	Clay, Stiff, consolidated, with fine-grained sand, Reddish Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.	
	<p>USE DTI NOV 2 2021 AM 8:17</p> <p>PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt</p>	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins SIGNATURE OF DRILLER / PRINT SIGNEE NAME	10/28/2021 DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

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



APPENDIX B

Photographic Log



Photographic Log

Matador Production Company

Dagger State TB

nAPP2401854801

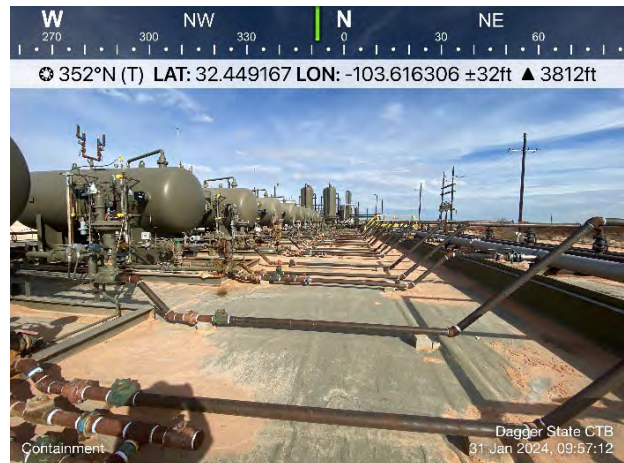


Photograph 1

Date: 5/28/2024

Description: Lease Signage

View: Southeast



Photograph 2

Date: 1/31/2024

Description: Inside Containment

View: North



Photograph 3

Date: 1/31/2024

Description: Spray area, off-pad

View: East



Photograph 4

Date: 1/31/2024

Description: Spray area, off-pad

View: West



Photographic Log

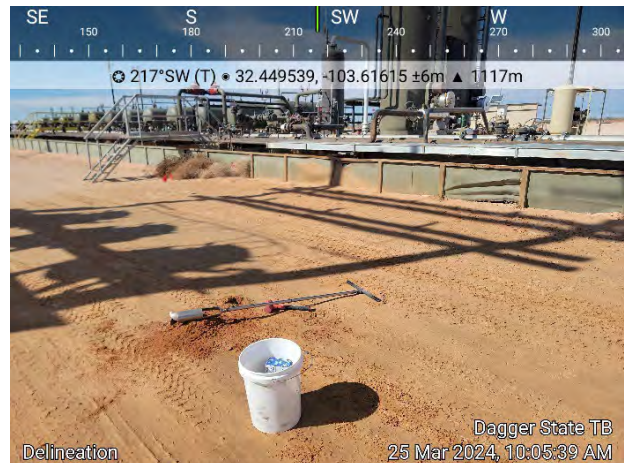
Matador Production Company

Dagger State TB

nAPP2401854801



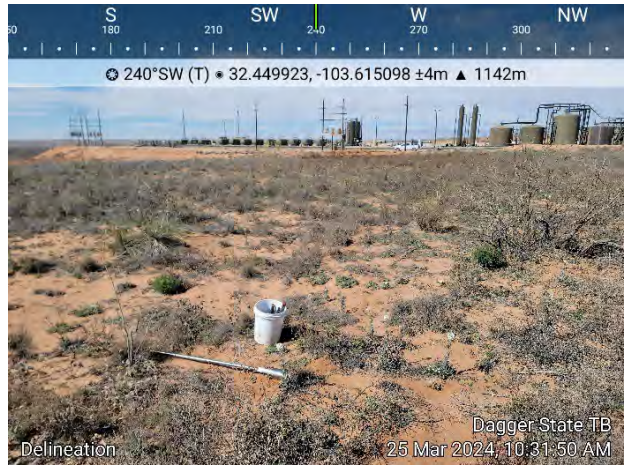
Photograph 5 Date: 1/31/2024
Description: View of Containment
View: East



Photograph 6 Date: 3/25/2024
Description: Vertical Delineation
View: Southwest



Photograph 7 Date: 3/25/2024
Description: Vertical Delineation
View: Southwest



Photograph 8 Date: 3/25/2024
Description: Vertical Delineation
View: Southwest

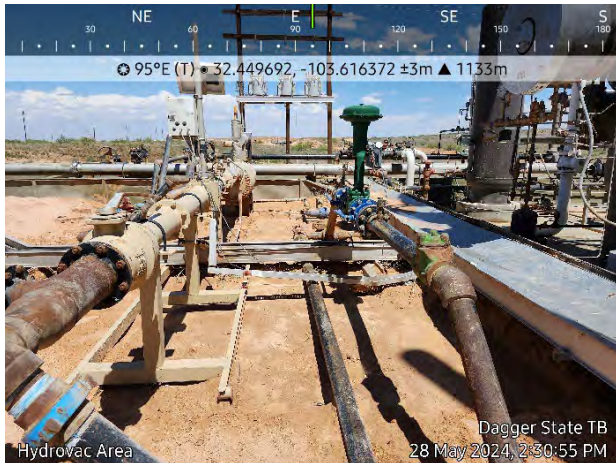


Photographic Log

Matador Production Company

Dagger State TB

nAPP2401854801



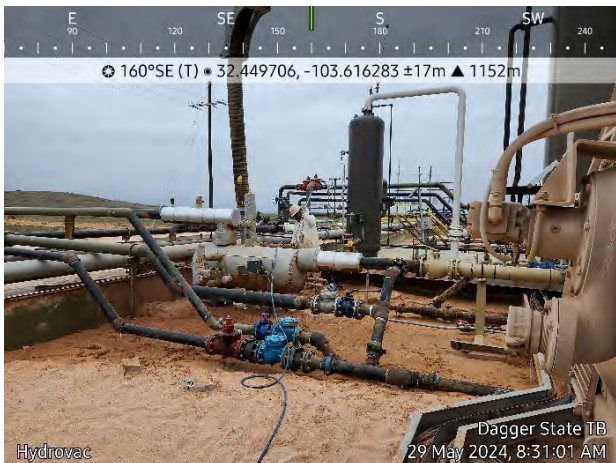
Photograph 9
Description: Release Area
View: East

Date: 5/28/2024



Photograph 10
Description: Hydrovac
View: East

Date: 5/28/2024



Photograph 11
Description: Hydrovac
View: South

Date: 5/29/2024



Photograph 12
Description: Hydrovac
View: East

Date: 5/29/2024



Photographic Log

Matador Production Company

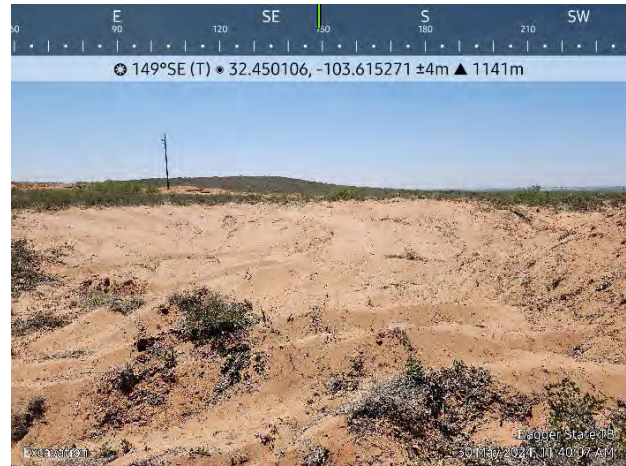
Dagger State TB

nAPP2401854801



Photograph 13
Description: Excavation
View: Southeast

Date: 5/30/2024



Photograph 14
Description: Excavation Area
View: Southeast

Date: 5/30/2024



Photograph 15
Description: Excavation
View: East

Date: 5/31/2024



Photograph 16
Description: Excavation
View: Southeast

Date: 6/3/2024



Photographic Log

Matador Production Company

Dagger State TB

nAPP2401854801



Photograph 17

Date: 6/3/2024

Description: Excavation Area

View: East



Photograph 18

Date: 6/4/2024

Description: Excavation

View: South

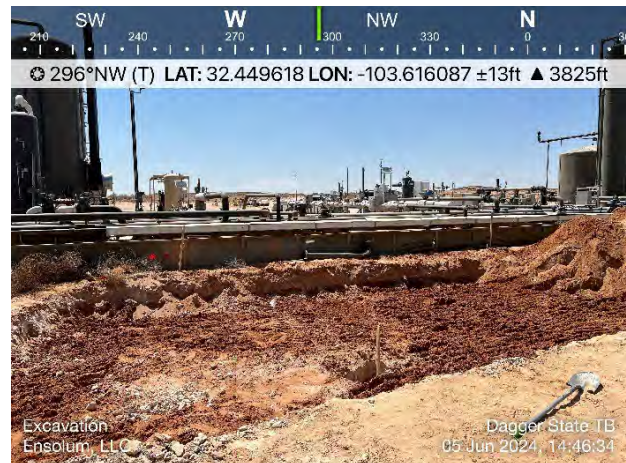


Photograph 19

Date: 6/5/2024

Description: Vertical Delineation

View: Southwest



Photograph 20

Date: 6/5/2024

Description: Excavation Area

View: West

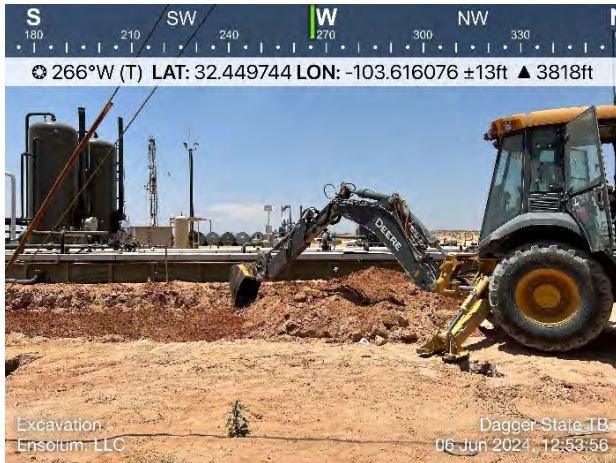


Photographic Log

Matador Production Company

Dagger State TB

nAPP2401854801



Photograph 21
Description: Excavation
View: West

Date: 6/6/2024



Photograph 22
Description: Excavation Area
View: South

Date: 6/7/2024



Photograph 23
Description: Excavation
View: East

Date: 6/7/2024




Photograph 24
Description: Deferral Area
View: South


Date: 6/21/2024





APPENDIX C


Lithologic Soil Sampling Logs


								Sample Name: BH01		Date: 3/25/24	
								Site Name: Dagger State TB			
								Incident Number: nAPP2401854801			
								Job Number: 03A2270026			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.44957, -103.61632								Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted with the Mohr method titration and PID for chloride and vapor, respectively. 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			
D			N	BH01	0	0	SP	Sand - Staining, odor, Fine grain			
							CCHE				
M	200		N	BH01	1	1	SP	Caliche			
M	350	1.5	N	BH01	2	2	SP	Sand - Fine grain, 93 TPH			
M		0.2	N	BH01	3	3	SP				
Total Depth @ 3 ft bgs.											

								Sample Name: BH02		Date: 3/25/24	
								Site Name: Dagger State TB			
								Incident Number: nAPP2401854801			
								Job Number: 03A2270026			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.44961, -103.61614								Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted with the Mohr method titration and PID for chloride and vapor, respectively. 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			
D			N	BH02	0	0	SP	Sand - Staining, odor, Fine grain			
							CCHE				
M	150		N	BH02	1	1	SP	Caliche			
M	150	2.4	N	BH02	2	2	SP	Sand - Fine grain, 105 TPH			
M		1.6	N	BH02	3	3	SP				
Total Depth @ 3 ft bgs.											

								Sample Name: BH03		Date: 3/25/24	
								Site Name: Dagger State TB			
								Incident Number: nAPP2401854801			
								Job Number: 03A2270026			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.44970, -103.61581								Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with the Mohr method titration and PID for chloride and vapor, respectively. 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			
D			N	BH03	0	0	SP	Sand - Staining, odor, Fine grain			
M	100		N	BH03	1	1	SP				
M		0.6	N	BH03	2	2	SP				
Total Depth @ 2 ft bgs.											

								Sample Name: BH04		Date: 3/25/24	
								Site Name: Dagger State TB			
								Incident Number: nAPP2401854801			
								Job Number: 03A2270026			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.44984, -103.61545								Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with the Mohr method titration and PID for chloride and vapor, respectively. 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			
D			N	BH04	0	0	SP	Sand - Staining, odor, Fine grain			
M	100		N	BH04	1	1	SP				
M		0.4	N	BH04	2	2	SP				
Total Depth @ 2 ft bgs.											

								Sample Name: BH05		Date: 3/25/24	
								Site Name: Dagger State TB			
								Incident Number: nAPP2401854801			
								Job Number: 03A2270026			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.44989, -103.61509								Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with the Mohr method titration and PID for chloride and vapor, respectively. 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			
D			N	BH05	0	0	SP	Sand - Staining, odor, Fine grain			
M	100	0.7	N	BH05	1	1	SP	Sand - Fine grain, 29 TPH			
Total Depth @ 1 ft bgs.											

								Sample Name: BH06		Date: 6/5/24	
								Site Name: Dagger State TB			
								Incident Number: nAPP2401854801			
								Job Number: 03A2270026			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.44961, -103.61609								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			
D			Y	BH06	0	0	SP-SM	Dry, Sand, Light Stain.			
M			Y	BH06	1	1	SP-SM				
M	ND		Y	BH06	2	2	SP-SM	Moist, Sand, Light Stain.			
M	ND		Y	BH06	3	3	SP-SM				
Total Depth @ 3 ft 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: 155049

(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: [Resi Solutions](#)

Project Proponent (Applicant): [Matador Production Company](#)

Project Title/Description: [Dagger State](#)

Project Location:

County(ies): [Lea County](#)

PLSS/Section/Township/Range): [Sec. 30 T21S R33E](#)

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

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: Dagger State TB

Work Order: E402027

Job Number: 23052-0001

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 2/7/24

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



Project Name: Dagger State TB
Workorder: E402027
Date Received: 2/2/2024 6:10:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Dagger State TB.

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

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS01 - 0'	5
SS02 - 0'	6
SS03 - 0'	7
SS04 - 0'	8
SS05 - 0'	9
SS06 - 0'	10
SS07 - 0'	11
SS08 - 0'	12
QC Summary Data	13
QC - Volatile Organic Compounds by EPA 8260B	13
QC - Nonhalogenated Organics by EPA 8015D - GRO	14
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	15
QC - Anions by EPA 300.0/9056A	16
Definitions and Notes	17
Chain of Custody etc.	18

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 02/07/24 14:33
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0'	E402027-01A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
SS02 - 0'	E402027-02A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
SS03 - 0'	E402027-03A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
SS04 - 0'	E402027-04A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
SS05 - 0'	E402027-05A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
SS06 - 0'	E402027-06A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
SS07 - 0'	E402027-07A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.
SS08 - 0'	E402027-08A	Soil	01/31/24	02/02/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dagger State TB
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
2/7/2024 2:33:12PM

SS01 - 0'

E402027-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/03/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/03/24	
Toluene	ND	0.0250	1	02/02/24	02/03/24	
o-Xylene	ND	0.0250	1	02/02/24	02/03/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/03/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/03/24	
Surrogate: Bromofluorobenzene	126 %	70-130		02/02/24	02/03/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		02/02/24	02/03/24	
Surrogate: Toluene-d8	113 %	70-130		02/02/24	02/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/03/24	
Surrogate: Bromofluorobenzene	126 %	70-130		02/02/24	02/03/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		02/02/24	02/03/24	
Surrogate: Toluene-d8	113 %	70-130		02/02/24	02/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/24	02/06/24	
Surrogate: n-Nonane	111 %	50-200		02/06/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	383	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
2/7/2024 2:33:12PM

SS02 - 0'

E402027-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/03/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/03/24	
Toluene	ND	0.0250	1	02/02/24	02/03/24	
o-Xylene	ND	0.0250	1	02/02/24	02/03/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/03/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/03/24	
Surrogate: Bromofluorobenzene		122 %	70-130	02/02/24	02/03/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	02/02/24	02/03/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/03/24	
Surrogate: Bromofluorobenzene		122 %	70-130	02/02/24	02/03/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	02/02/24	02/03/24	
Surrogate: Toluene-d8		113 %	70-130	02/02/24	02/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/24	02/06/24	
Surrogate: n-Nonane		108 %	50-200	02/06/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	29.9	20.0	1	02/04/24	02/05/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 2/7/2024 2:33:12PM
---	---	---------------------------------

SS03 - 0'

E402027-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		110 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		110 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/24	02/06/24	
Surrogate: n-Nonane		110 %	50-200	02/06/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	319	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
2/7/2024 2:33:12PM

SS04 - 0'

E402027-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		119 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		119 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/24	02/06/24	
Surrogate: n-Nonane		112 %	50-200	02/06/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	76.6	20.0	1	02/04/24	02/05/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 2/7/2024 2:33:12PM
---	---	---------------------------------

SS05 - 0'

E402027-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/03/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/03/24	
Toluene	ND	0.0250	1	02/02/24	02/03/24	
o-Xylene	ND	0.0250	1	02/02/24	02/03/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/03/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/03/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	02/02/24	02/03/24	
Surrogate: Toluene-d8		110 %	70-130	02/02/24	02/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/03/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	02/02/24	02/03/24	
Surrogate: Toluene-d8		110 %	70-130	02/02/24	02/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/24	02/06/24	
Surrogate: n-Nonane		111 %	50-200	02/06/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	ND	20.0	1	02/04/24	02/05/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 2/7/2024 2:33:12PM
---	---	---------------------------------

SS06 - 0'

E402027-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		121 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/24	02/06/24	
Surrogate: n-Nonane		112 %	50-200	02/06/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	ND	20.0	1	02/04/24	02/05/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
2/7/2024 2:33:12PM

SS07 - 0'

E402027-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		123 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		111 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/24	02/06/24	
Surrogate: n-Nonane		115 %	50-200	02/06/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	ND	20.0	1	02/04/24	02/05/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 2/7/2024 2:33:12PM
---	---	---------------------------------

SS08 - 0'

E402027-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		110 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2405151
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: Bromofluorobenzene		120 %	70-130	02/02/24	02/04/24	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130	02/02/24	02/04/24	
Surrogate: Toluene-d8		110 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2406033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/24	02/06/24	
Surrogate: n-Nonane		115 %	50-200	02/06/24	02/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2406002
Chloride	ND	20.0	1	02/04/24	02/05/24	



Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2024 2:33:12PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

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

Blank (2405151-BLK1)Prepared: 02/02/24 Analyzed: 02/03/24

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	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS1)Prepared: 02/02/24 Analyzed: 02/03/24

Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.94	0.0250	2.50		118	70-130			
Toluene	2.91	0.0250	2.50		116	70-130			
o-Xylene	2.90	0.0250	2.50		116	70-130			
p,m-Xylene	5.91	0.0500	5.00		118	70-130			
Total Xylenes	8.81	0.0250	7.50		117	70-130			
Surrogate: Bromofluorobenzene	0.629		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.578		0.500		116	70-130			

Matrix Spike (2405151-MS1)Source: E402027-05Prepared: 02/02/24 Analyzed: 02/03/24

Benzene	2.63	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.74	0.0250	2.50	ND	110	45-135			
Toluene	2.67	0.0250	2.50	ND	107	48-130			
o-Xylene	2.80	0.0250	2.50	ND	112	43-135			
p,m-Xylene	5.63	0.0500	5.00	ND	113	43-135			
Total Xylenes	8.43	0.0250	7.50	ND	112	43-135			
Surrogate: Bromofluorobenzene	0.626		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.560		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD1)Source: E402027-05Prepared: 02/02/24 Analyzed: 02/05/24

Benzene	2.88	0.0250	2.50	ND	115	48-131	9.06	23	
Ethylbenzene	2.95	0.0250	2.50	ND	118	45-135	7.41	27	
Toluene	2.88	0.0250	2.50	ND	115	48-130	7.80	24	
o-Xylene	2.98	0.0250	2.50	ND	119	43-135	5.99	27	
p,m-Xylene	5.99	0.0500	5.00	ND	120	43-135	6.27	27	
Total Xylenes	8.97	0.0250	7.50	ND	120	43-135	6.18	27	
Surrogate: Bromofluorobenzene	0.632		0.500		126	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2024 2:33:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

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

Blank (2405151-BLK1) Prepared: 02/02/24 Analyzed: 02/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

LCS (2405151-BS2) Prepared: 02/02/24 Analyzed: 02/05/24

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.566		0.500		113	70-130			

Matrix Spike (2405151-MS2) Source: E402027-05 Prepared: 02/02/24 Analyzed: 02/03/24

Gasoline Range Organics (C6-C10)	62.0	20.0	50.0	ND	124	70-130			
Surrogate: Bromofluorobenzene	0.621		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

Matrix Spike Dup (2405151-MSD2) Source: E402027-05 Prepared: 02/02/24 Analyzed: 02/03/24

Gasoline Range Organics (C6-C10)	63.0	20.0	50.0	ND	126	70-130	1.73	20	
Surrogate: Bromofluorobenzene	0.627		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.570		0.500		114	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2024 2:33:12PM

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

Blank (2406033-BLK1)					Prepared: 02/06/24 Analyzed: 02/06/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.8		50.0		116	50-200			

LCS (2406033-BS1)					Prepared: 02/06/24 Analyzed: 02/06/24				
Diesel Range Organics (C10-C28)	298	25.0	250		119	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			

Matrix Spike (2406033-MS1)					Source: E402027-02		Prepared: 02/06/24 Analyzed: 02/07/24		
Diesel Range Organics (C10-C28)	293	25.0	250	ND	117	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike Dup (2406033-MSD1)					Source: E402027-02		Prepared: 02/06/24 Analyzed: 02/07/24		
Diesel Range Organics (C10-C28)	322	25.0	250	ND	129	38-132	9.54	20	
Surrogate: n-Nonane	61.7		50.0		123	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2024 2:33:12PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2406002-BLK1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	ND	20.0							
LCS (2406002-BS1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	246	20.0	250		98.6	90-110			
LCS Dup (2406002-BSD1)					Prepared: 02/04/24 Analyzed: 02/05/24				
Chloride	247	20.0	250		98.6	90-110	0.0560	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/07/24 14:33

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

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

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



Client: Matador Production Company				Bill To		Lab Use Only				TAT				EPA Program			
Project: Dagger State TB				Attention: Matador Production Company		Lab WO# E402027		Job Number 23052-0001		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo				Address: on file										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	BTX 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:									x				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks											
10:01	1/31/2024	Soil	1	SS01 - 0'	1												
12:02	1/31/2024	Soil	1	SS02 - 0'	2												
10:36	1/31/2024	Soil	1	SS03 - 0'	3												
10:29	1/31/2024	Soil	1	SS04 - 0'	4												
11:26	1/31/2024	Soil	1	SS05 - 0'	5												
11:10	1/31/2024	Soil	1	SS06 - 0'	6												
11:03	1/31/2024	Soil	1	SS07 - 0'	7												
11:05	1/31/2024	Soil	1	SS08 - 0'	8												

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com, iestrella@ensolum.com - samples kept on ice

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
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

Envirotech Analytical Laboratory

Printed: 2/3/2024 9:23:08AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	02/02/24 06:10	Work Order ID:	E402027
Phone:	(972) 371-5200	Date Logged In:	02/02/24 09:35	Logged In By:	Jessica Liesse
Email:	agiovngo@ensolum.com	Due Date:	02/08/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

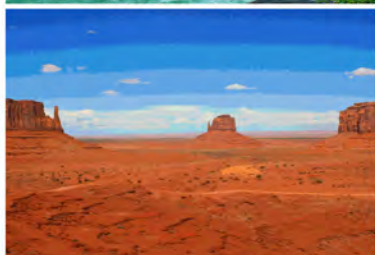
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dagger State TB

Work Order: E403253

Job Number: 23003-C-0001

Received: 3/27/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/2/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/2/24

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



Project Name: Dagger State TB
Workorder: E403253
Date Received: 3/27/2024 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/27/2024 7:00:00AM, under the Project Name: Dagger State TB.

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

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 -0'	5
BH01 -1'	6
BH02 -0'	7
BH02 -1'	8
BH03 -0'	9
BH03 -1'	10
BH04 -0'	11
BH04 -1'	12
BH05 -0'	13
BH05 -1'	14
QC Summary Data	15
QC - Volatile Organics by EPA 8021B	15
QC - Nonhalogenated Organics by EPA 8015D - GRO	16
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	17
QC - Anions by EPA 300.0/9056A	18
Definitions and Notes	19
Chain of Custody etc.	20

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 04/02/24 14:27
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 -0'	E403253-01A	Soil	03/25/24	03/27/24	Glass Jar, 2 oz.
BH01 -1'	E403253-02A	Soil	03/25/24	03/27/24	Glass Jar, 2 oz.
BH02 -0'	E403253-03A	Soil	03/25/24	03/27/24	Glass Jar, 2 oz.
BH02 -1'	E403253-04A	Soil	03/25/24	03/27/24	Glass Jar, 2 oz.
BH03 -0'	E403253-05A	Soil	03/25/24	03/27/24	Glass Jar, 2 oz.
BH03 -1'	E403253-06A	Soil	03/25/24	03/27/24	Glass Jar, 2 oz.
BH04 -0'	E403253-07A	Soil	03/25/24	03/27/24	Glass Jar, 2 oz.
BH04 -1'	E403253-08A	Soil	03/25/24	03/27/24	Glass Jar, 2 oz.
BH05 -0'	E403253-09A	Soil	03/25/24	03/27/24	Glass Jar, 2 oz.
BH05 -1'	E403253-10A	Soil	03/25/24	03/27/24	Glass Jar, 2 oz.
BH01 -2'	E403253-11A	Soil	03/25/24	03/27/24	Glass Jar, 2 oz.
BH02 -2'	E403253-12A	Soil	03/25/24	03/27/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 2:27:18PM
---	---	---------------------------------

BH01 -0'

E403253-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Benzene	ND	0.0250	1	03/27/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/27/24	03/27/24	
Toluene	ND	0.0250	1	03/27/24	03/27/24	
o-Xylene	ND	0.0250	1	03/27/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/27/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/27/24	03/27/24	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/24	03/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.4 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	26.3	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
Surrogate: n-Nonane	68.5 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413076	
Chloride	2790	40.0	2	03/27/24	03/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 2:27:18PM
---	---	---------------------------------

BH01 -1'

E403253-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Benzene	ND	0.0250	1	03/27/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/27/24	03/27/24	
Toluene	ND	0.0250	1	03/27/24	03/27/24	
o-Xylene	ND	0.0250	1	03/27/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/27/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/27/24	03/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/24	03/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.6 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
<i>Surrogate: n-Nonane</i>						
	73.3 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2413076	
Chloride	66.1	20.0	1	03/27/24	03/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 2:27:18PM
---	---	---------------------------------

BH02 -0'

E403253-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Benzene	ND	0.0250	1	03/27/24	03/27/24	
Ethylbenzene	0.962	0.0250	1	03/27/24	03/27/24	
Toluene	0.115	0.0250	1	03/27/24	03/27/24	
o-Xylene	2.15	0.0250	1	03/27/24	03/27/24	
p,m-Xylene	3.78	0.0500	1	03/27/24	03/27/24	
Total Xylenes	5.93	0.0250	1	03/27/24	03/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	121 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Gasoline Range Organics (C6-C10)	117	20.0	1	03/27/24	03/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	5280	125	5	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	1900	250	5	03/28/24	04/01/24	
<i>Surrogate: n-Nonane</i>						
	86.6 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413076	
Chloride	2090	40.0	2	03/27/24	03/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 2:27:18PM
---	---	---------------------------------

BH02 -1'

E403253-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Benzene	ND	0.0250	1	03/27/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/27/24	03/27/24	
Toluene	ND	0.0250	1	03/27/24	03/27/24	
o-Xylene	ND	0.0250	1	03/27/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/27/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/27/24	03/27/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/24	03/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.9 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
Surrogate: n-Nonane	70.2 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413076	
Chloride	25.3	20.0	1	03/27/24	03/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 2:27:18PM
---	---	--

BH03 -0'

E403253-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Benzene	ND	0.0250	1	03/27/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/27/24	03/27/24	
Toluene	ND	0.0250	1	03/27/24	03/27/24	
o-Xylene	ND	0.0250	1	03/27/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/27/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/27/24	03/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.6 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/24	03/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.8 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	2550	125	5	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	1380	250	5	03/28/24	04/01/24	
<i>Surrogate: n-Nonane</i>	71.1 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413076	
Chloride	406	20.0	1	03/27/24	03/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 2:27:18PM
---	---	---------------------------------

BH03 -1'

E403253-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Benzene	ND	0.0250	1	03/27/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/27/24	03/27/24	
Toluene	ND	0.0250	1	03/27/24	03/27/24	
o-Xylene	ND	0.0250	1	03/27/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/27/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/27/24	03/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/24	03/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.3 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
<i>Surrogate: n-Nonane</i>						
	74.1 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2413076	
Chloride	21.0	20.0	1	03/27/24	03/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 2:27:18PM
---	---	---------------------------------

BH04 -0'

E403253-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Benzene	ND	0.0250	1	03/27/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/27/24	03/27/24	
Toluene	ND	0.0250	1	03/27/24	03/27/24	
o-Xylene	ND	0.0250	1	03/27/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/27/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/27/24	03/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/24	03/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.6 %	70-130		03/27/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	130	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	91.7	50.0	1	03/28/24	04/01/24	
<i>Surrogate: n-Nonane</i>						
	74.6 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2413076	
Chloride	67.5	20.0	1	03/27/24	03/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 2:27:18PM
---	---	---------------------------------

BH04 -1'

E403253-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Benzene	ND	0.0250	1	03/27/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/27/24	03/28/24	
Toluene	ND	0.0250	1	03/27/24	03/28/24	
o-Xylene	ND	0.0250	1	03/27/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/27/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/27/24	03/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.3 %	70-130		03/27/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/24	03/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.9 %	70-130		03/27/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
<i>Surrogate: n-Nonane</i>						
	71.1 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2413076	
Chloride	ND	20.0	1	03/27/24	03/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 2:27:18PM
---	---	---------------------------------

BH05 -0'

E403253-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Benzene	ND	0.0250	1	03/27/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/27/24	03/28/24	
Toluene	ND	0.0250	1	03/27/24	03/28/24	
o-Xylene	ND	0.0250	1	03/27/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/27/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/27/24	03/28/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		03/27/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/24	03/28/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.3 %	70-130		03/27/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	36.3	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
<i>Surrogate: n-Nonane</i>						
	74.6 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2413076	
Chloride	31.4	20.0	1	03/27/24	03/27/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/2/2024 2:27:18PM
---	---	---------------------------------

BH05 -1'

E403253-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Benzene	ND	0.0250	1	03/27/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/27/24	03/28/24	
Toluene	ND	0.0250	1	03/27/24	03/28/24	
o-Xylene	ND	0.0250	1	03/27/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/27/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/27/24	03/28/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		03/27/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2413075	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/27/24	03/28/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.9 %	70-130		03/27/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413103	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/28/24	04/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/28/24	04/01/24	
Surrogate: n-Nonane	74.0 %	50-200		03/28/24	04/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2413076	
Chloride	ND	20.0	1	03/27/24	03/27/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/2/2024 2:27:18PM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2413075-BLK1) Prepared: 03/27/24 Analyzed: 03/27/24

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	7.70		8.00		96.2	70-130			

LCS (2413075-BS1) Prepared: 03/27/24 Analyzed: 03/27/24

Benzene	5.05	0.0250	5.00		101	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.1	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	4.97	0.0250	5.00		99.5	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

Matrix Spike (2413075-MS1) Source: E403253-12 Prepared: 03/27/24 Analyzed: 03/27/24

Benzene	5.11	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.96	0.0250	5.00	ND	99.3	61-133			
Toluene	5.11	0.0250	5.00	ND	102	61-130			
o-Xylene	5.04	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2413075-MSD1) Source: E403253-12 Prepared: 03/27/24 Analyzed: 03/27/24

Benzene	5.48	0.0250	5.00	ND	110	54-133	6.97	20	
Ethylbenzene	5.32	0.0250	5.00	ND	106	61-133	6.84	20	
Toluene	5.47	0.0250	5.00	ND	109	61-130	6.85	20	
o-Xylene	5.40	0.0250	5.00	ND	108	63-131	6.90	20	
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131	6.70	20	
Total Xylenes	16.3	0.0250	15.0	ND	108	63-131	6.77	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/2/2024 2:27:18PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2413075-BLK1) Prepared: 03/27/24 Analyzed: 03/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

LCS (2413075-BS2) Prepared: 03/27/24 Analyzed: 03/27/24

Gasoline Range Organics (C6-C10)	41.5	20.0	50.0		83.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130			

Matrix Spike (2413075-MS2) Source: E403253-12 Prepared: 03/27/24 Analyzed: 03/27/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.2	70-130			

Matrix Spike Dup (2413075-MSD2) Source: E403253-12 Prepared: 03/27/24 Analyzed: 03/27/24

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.3	70-130	6.47	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		90.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/2/2024 2:27:18PM

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

Blank (2413103-BLK1)					Prepared: 03/28/24 Analyzed: 03/31/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	36.6		50.0		73.2	50-200			

LCS (2413103-BS1)					Prepared: 03/28/24 Analyzed: 03/31/24				
Diesel Range Organics (C10-C28)	234	25.0	250		93.5	38-132			
Surrogate: n-Nonane	36.9		50.0		73.9	50-200			

Matrix Spike (2413103-MS1)					Source: E403253-01		Prepared: 03/28/24 Analyzed: 03/31/24		
Diesel Range Organics (C10-C28)	258	25.0	250	26.3	92.8	38-132			
Surrogate: n-Nonane	35.3		50.0		70.6	50-200			

Matrix Spike Dup (2413103-MSD1)					Source: E403253-01		Prepared: 03/28/24 Analyzed: 03/31/24		
Diesel Range Organics (C10-C28)	263	25.0	250	26.3	94.7	38-132	1.85	20	
Surrogate: n-Nonane	36.2		50.0		72.5	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/2/2024 2:27:18PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2413076-BLK1)					Prepared: 03/27/24 Analyzed: 03/27/24				
Chloride	ND	20.0							
LCS (2413076-BS1)					Prepared: 03/27/24 Analyzed: 03/27/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2413076-MS1)					Source: E403253-03		Prepared: 03/27/24 Analyzed: 03/27/24		
Chloride	2650	40.0	250	2090	225	80-120			M4
Matrix Spike Dup (2413076-MSD1)					Source: E403253-03		Prepared: 03/27/24 Analyzed: 03/27/24		
Chloride	2430	40.0	250	2090	137	80-120	8.68	20	M4

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/02/24 14:27

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

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

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



Project Information

Chain of Custody

Client: Matador Production Company		Bill To		Lab Use Only		TAT		EPA Program					
Project: Dagger State TB		Attention: Ensolum LLC		Lab WO# E403253		Job Number 23003-6-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file									x		
Address: 3122 National Parks Hwy		City, State, Zip:											RCRA
City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055											
Phone: 575-988-0055		Email: agiovengo@ensolum.com											
Email: agiovengo@ensolum.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	Remarks
9:43	3/25/2024	Soil	1	BH01 - 0'	1							X		
9:46	3/25/2024	Soil	1	BH01 - 1'	2							X		
9:59	3/25/2024	Soil	1	BH02 - 0'	3							X		
10:03	3/25/2024	Soil	1	BH02 - 1'	4							X		
10:20	3/25/2024	Soil	1	BH03 - 0'	5							X		
10:22	3/25/2024	Soil	1	BH03 - 1'	6							X		
10:26	3/25/2024	Soil	1	BH04 - 0'	7							X		
10:28	3/25/2024	Soil	1	BH04 - 1'	8							X		
10:30	3/25/2024	Soil	1	BH05 - 0'	9							X		
10:31	3/25/2024	Soil	1	BH05 - 1'	10							X		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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) <i>Cole Burton</i>	Date 3-26-24	Time 7:30	Received by: (Signature) <i>Michelle Ely</i>	Date 3-26-24	Time 0730	Lab Use Only Received on ice: Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature) <i>Michelle Ely</i>	Date 3-26-24	Time 1730	Received by: (Signature) <i>Andrew Moss</i>	Date 3-26-24	Time 1730	
Relinquished by: (Signature) <i>Andrew Moss</i>	Date 3-26-24	Time 2230	Received by: (Signature) <i>Thuy & Hal</i>	Date 3-27-24	Time 0700	

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

Client: Matador Production Company						Bill To				Lab Use Only							TAT				EPA Program					
Project: Dagger State TB						Attention: Ensolum LLC				Lab WO#			Job Number				1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo						Address: on file				E 403253			23003-C-0001							x						
Address: 3122 National Parks Hwy						City, State, Zip:				Analysis and Method																RCRA
City, State, Zip: Carlsbad NM, 88220						Phone: 575-988-0055					TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State							
Phone: 575-988-0055						Email: agiovengo@ensolum.com													NM	CO	UT	AZ	TX			
Email: agiovengo@ensolum.com																										
Report due by:																					Remarks					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																					
9:49	3/25/2024	Soil	1	BH01 - 2'	11											X				Do not run for BGDOC unless BH01 - 1' > 100 TPH or 600 Cl						
10:05	3/25/2024	Soil	1	BH02 - 2'	12											X				Do not run for BGDOC unless BH02 - 1' > 100 TPH or 600 Cl						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																										
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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	Lab Use Only																		
[Signature]		3-26-24	7:30	Michelle Cuyt		3-26-24	0730	Received on ice: Y / N																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3																		
[Signature]		3-26-24	1730	Andrew MBS		3-26-24	1730																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4																		
[Signature]		3-26-24	2230	Khyatt A Adair		3-27-24	0700																			
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: 3/27/2024 10:13:45AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.
 Phone: (972) 371-5200
 Email: agiovnngo@ensolum.com

Date Received: 03/27/24 07:00
 Date Logged In: 03/26/24 16:01
 Due Date: 04/02/24 17:00 (4 day TAT)

Work Order ID: E403253
 Logged In By: Angelina Pineda

Chain of Custody (COC)

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

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

See Remarks on COC for Samples (11)-
 BH01 -2, (12)- BH02-2

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

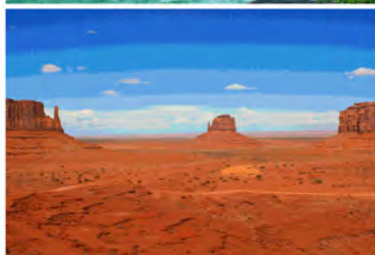
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dagger State TB

Work Order: E406027

Job Number: 23003-0002

Received: 6/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/7/24

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: 6/7/24

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



Project Name: Dagger State TB
Workorder: E406027
Date Received: 6/5/2024 12:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/5/2024 12:00:00PM, under the Project Name: Dagger State TB.

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

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS80 - 0'	5
FS81 - 0'	6
FS82 - 0'	7
FS83 - 0'	8
FS84 - 0'	9
FS85 - 0'	10
FS86 - 0'	11
QC Summary Data	12
QC - Volatile Organics by EPA 8021B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/07/24 14:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS80 - 0'	E406027-01A	Soil	06/03/24	06/05/24	Glass Jar, 2 oz.
FS81 - 0'	E406027-02A	Soil	06/03/24	06/05/24	Glass Jar, 2 oz.
FS82 - 0'	E406027-03A	Soil	06/03/24	06/05/24	Glass Jar, 2 oz.
FS83 - 0'	E406027-04A	Soil	06/03/24	06/05/24	Glass Jar, 2 oz.
FS84 - 0'	E406027-05A	Soil	06/03/24	06/05/24	Glass Jar, 2 oz.
FS85 - 0'	E406027-06A	Soil	06/03/24	06/05/24	Glass Jar, 2 oz.
FS86 - 0'	E406027-07A	Soil	06/03/24	06/05/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/7/2024 2:26:19PM

FS80 - 0'

E406027-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.5 %	70-130	06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.5 %	70-130	06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2423069	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/05/24	06/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/05/24	06/07/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	06/05/24	06/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423074	
Chloride	ND	20.0	1	06/05/24	06/06/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/7/2024 2:26:19PM

FS81 - 0'

E406027-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.0 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.9 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2423069	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/05/24	06/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/05/24	06/07/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		06/05/24	06/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2423074	
Chloride	ND	20.0	1	06/05/24	06/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:26:19PM
---	---	---------------------------------

FS82 - 0'

E406027-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.5 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.9 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2423069	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/05/24	06/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/05/24	06/07/24	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		06/05/24	06/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2423074	
Chloride	ND	20.0	1	06/05/24	06/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:26:19PM
---	---	---------------------------------

FS83 - 0'

E406027-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
Surrogate: 4-Bromochlorobenzene-PID	92.1 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.0 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2423069	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/05/24	06/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/05/24	06/07/24	
Surrogate: n-Nonane	116 %	50-200		06/05/24	06/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423074	
Chloride	ND	20.0	1	06/05/24	06/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:26:19PM
---	---	---------------------------------

FS84 - 0'

E406027-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
Surrogate: 4-Bromochlorobenzene-PID	91.1 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.2 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2423069	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/05/24	06/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/05/24	06/07/24	
Surrogate: n-Nonane	120 %	50-200		06/05/24	06/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423074	
Chloride	ND	20.0	1	06/05/24	06/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:26:19PM
---	---	---------------------------------

FS85 - 0'

E406027-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
Surrogate: 4-Bromochlorobenzene-PID	91.2 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.7 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2423069	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/05/24	06/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/05/24	06/07/24	
Surrogate: n-Nonane	117 %	50-200		06/05/24	06/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423074	
Chloride	ND	20.0	1	06/05/24	06/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:26:19PM
---	---	---------------------------------

FS86 - 0'

E406027-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423063	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.5 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2423069	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/05/24	06/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/05/24	06/07/24	
Surrogate: n-Nonane	117 %	50-200		06/05/24	06/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423074	
Chloride	ND	20.0	1	06/05/24	06/06/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/7/2024 2:26:19PM

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

Blank (2423063-BLK1)

Prepared: 06/05/24 Analyzed: 06/06/24

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	7.50		8.00		93.8	70-130			

LCS (2423063-BS1)

Prepared: 06/05/24 Analyzed: 06/06/24

Benzene	4.83	0.0250	5.00		96.7	70-130			
Ethylbenzene	4.68	0.0250	5.00		93.7	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.67	0.0250	5.00		93.4	70-130			
p,m-Xylene	9.52	0.0500	10.0		95.2	70-130			
Total Xylenes	14.2	0.0250	15.0		94.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.7	70-130			

LCS Dup (2423063-BSD1)

Prepared: 06/05/24 Analyzed: 06/06/24

Benzene	4.74	0.0250	5.00		94.8	70-130	2.00	20	
Ethylbenzene	4.59	0.0250	5.00		91.8	70-130	1.97	20	
Toluene	4.68	0.0250	5.00		93.7	70-130	1.86	20	
o-Xylene	4.59	0.0250	5.00		91.7	70-130	1.82	20	
p,m-Xylene	9.34	0.0500	10.0		93.4	70-130	1.89	20	
Total Xylenes	13.9	0.0250	15.0		92.9	70-130	1.86	20	
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/7/2024 2:26:19PM

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

Blank (2423063-BLK1) Prepared: 06/05/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			

LCS (2423063-BS2) Prepared: 06/05/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0		95.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		98.9	70-130			

LCS Dup (2423063-BSD2) Prepared: 06/05/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130	3.44	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/7/2024 2:26:19PM

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

Blank (2423069-BLK1) Prepared: 06/05/24 Analyzed: 06/07/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.0		50.0		114	50-200			

LCS (2423069-BS1) Prepared: 06/05/24 Analyzed: 06/07/24

Diesel Range Organics (C10-C28)	309	25.0	250		124	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			

LCS Dup (2423069-BSD1) Prepared: 06/05/24 Analyzed: 06/07/24

Diesel Range Organics (C10-C28)	307	25.0	250		123	38-132	0.534	20	
Surrogate: n-Nonane	57.8		50.0		116	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/7/2024 2:26:19PM
---	---	-------------------------------------

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2423074-BLK1)					Prepared: 06/05/24 Analyzed: 06/06/24				
Chloride	ND	20.0							
LCS (2423074-BS1)					Prepared: 06/05/24 Analyzed: 06/06/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2423074-MS1)					Source: E406022-03		Prepared: 06/05/24 Analyzed: 06/06/24		
Chloride	246	200	250	ND	98.4	80-120			
Matrix Spike Dup (2423074-MSD1)					Source: E406022-03		Prepared: 06/05/24 Analyzed: 06/06/24		
Chloride	243	200	250	ND	97.2	80-120	1.28	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/07/24 14:26

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

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

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



Chain of Custody

Page 1 of 1

Received by OCD: 7/17/2024 1:42:48 PM

81 of 71 Page

Page 93 of 518

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Dagger State TB				Address: 3122 National Parks Hwy		E 406027		23003-0003					X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information							Analysis and Method							EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
11:32	6/3/2024	S	1	FS80 - 0'		1						X					
11:35	6/3/2024	S	1	FS81 - 0'		2						X					
11:27	6/3/2024	S	1	FS82 - 0'		3						X					
11:25	6/3/2024	S	1	FS83 - 0'		4						X					
11:20	6/3/2024	S	1	FS84 - 0'		5						X					
11:15	6/3/2024	S	1	FS85 - 0'		6						X					
11:12	6/3/2024	S	1	FS86 - 0'		7						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Chad Hamilton																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Envirotech Analytical Laboratory

Printed: 6/6/2024 4:51:42PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/05/24 12:00	Work Order ID:	E406027
Phone:	(972) 371-5200	Date Logged In:	06/04/24 18:08	Logged In By:	Angelina Pineda
Email:	agiovngo@ensolum.com	Due Date:	06/12/24 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

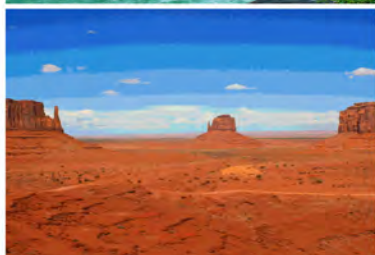
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dagger State TB

Work Order: E406045

Job Number: 23003-0002

Received: 6/6/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/12/24

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: 6/12/24

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



Project Name: Dagger State TB
Workorder: E406045
Date Received: 6/6/2024 9:00:56AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/6/2024 9:00:56AM, under the Project Name: Dagger State TB.

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

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS79-1'	6
FS78-1'	7
FS77-1'	8
FS76-1'	9
FS75-1'	10
FS74-1'	11
FS73-1'	12
FS72-1'	13
FS71-1'	14
FS70-1'	15
FS69-1'	16
FS68-1'	17
FS67-1'	18
FS66-1'	19
FS65-1'	20
FS63-1'	21
FS62-1'	22
FS61-1'	23
FS60-1'	24
FS59-1'	25

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organics by EPA 8021B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Dagger State TB

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

06/12/24 17:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS79-1'	E406045-01A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS78-1'	E406045-02A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS77-1'	E406045-03A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS76-1'	E406045-04A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS75-1'	E406045-05A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS74-1'	E406045-06A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS73-1'	E406045-07A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS72-1'	E406045-08A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS71-1'	E406045-09A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS70-1'	E406045-10A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS69-1'	E406045-11A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS68-1'	E406045-12A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS67-1'	E406045-13A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS66-1'	E406045-14A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS65-1'	E406045-15A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS63-1'	E406045-16A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS62-1'	E406045-17A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS61-1'	E406045-18A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS60-1'	E406045-19A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS59-1'	E406045-20A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS79-1'
E406045-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.4 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	104 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS78-1'
E406045-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: 4-Bromochlorobenzene-PID	92.6 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.0 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	105 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/12/2024 5:26:37PM

FS77-1'

E406045-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.4 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	99.9 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
<i>Surrogate: n-Nonane</i>	103 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS76-1'
E406045-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	100 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	107 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/12/2024 5:26:37PM

FS75-1'

E406045-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>91.5 %</i>	<i>70-130</i>		<i>06/06/24</i>	<i>06/07/24</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>98.6 %</i>	<i>70-130</i>		<i>06/06/24</i>	<i>06/07/24</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
<i>Surrogate: n-Nonane</i>	<i>110 %</i>	<i>50-200</i>		<i>06/06/24</i>	<i>06/11/24</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS74-1'

E406045-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.4 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	113 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS73-1'

E406045-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: 4-Bromochlorobenzene-PID	90.9 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.0 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	106 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS72-1'
E406045-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: 4-Bromochlorobenzene-PID	91.7 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.2 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	107 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS71-1'
E406045-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: 4-Bromochlorobenzene-PID	92.1 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.8 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	105 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS70-1'
E406045-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.0 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	103 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	20.1	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS69-1'

E406045-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: 4-Bromochlorobenzene-PID	92.4 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.9 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	105 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	22.7	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS68-1'

E406045-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: 4-Bromochlorobenzene-PID	91.9 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.3 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	109 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS67-1'
E406045-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.1 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	109 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS66-1'

E406045-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: 4-Bromochlorobenzene-PID	91.6 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.9 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	108 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/12/2024 5:26:37PM

FS65-1'

E406045-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	0.0276	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.2 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	98.8 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
<i>Surrogate: n-Nonane</i>	107 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/12/2024 5:26:37PM

FS63-1'

E406045-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.8 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.5 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/12/2024 5:26:37PM

FS62-1'

E406045-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.4 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	98.5 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
<i>Surrogate: n-Nonane</i>	110 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS61-1'
E406045-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: 4-Bromochlorobenzene-PID	93.6 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.8 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	104 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/12/2024 5:26:37PM

FS60-1'

E406045-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.8 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	----------------------------------

FS59-1'

E406045-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.4 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2423117	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane	110 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2423141	
Chloride	34.4	20.0	1	06/07/24	06/11/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/12/2024 5:26:37PM

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

Blank (2423088-BLK1) Prepared: 06/06/24 Analyzed: 06/07/24

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	7.36		8.00		92.0	70-130			

LCS (2423088-BS1) Prepared: 06/06/24 Analyzed: 06/07/24

Benzene	4.81	0.0250	5.00		96.2	70-130			
Ethylbenzene	4.65	0.0250	5.00		93.1	70-130			
Toluene	4.75	0.0250	5.00		95.0	70-130			
o-Xylene	4.65	0.0250	5.00		92.9	70-130			
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130			
Total Xylenes	14.1	0.0250	15.0		94.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.32		8.00		91.5	70-130			

Matrix Spike (2423088-MS1) Source: E406045-01 Prepared: 06/06/24 Analyzed: 06/07/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133			
Ethylbenzene	4.64	0.0250	5.00	ND	92.8	61-133			
Toluene	4.75	0.0250	5.00	ND	95.1	61-130			
o-Xylene	4.64	0.0250	5.00	ND	92.8	63-131			
p,m-Xylene	9.42	0.0500	10.0	ND	94.2	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	93.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

Matrix Spike Dup (2423088-MSD1) Source: E406045-01 Prepared: 06/06/24 Analyzed: 06/07/24

Benzene	4.83	0.0250	5.00	ND	96.6	54-133	0.208	20	
Ethylbenzene	4.67	0.0250	5.00	ND	93.4	61-133	0.567	20	
Toluene	4.77	0.0250	5.00	ND	95.4	61-130	0.368	20	
o-Xylene	4.65	0.0250	5.00	ND	93.1	63-131	0.324	20	
p,m-Xylene	9.48	0.0500	10.0	ND	94.8	63-131	0.561	20	
Total Xylenes	14.1	0.0250	15.0	ND	94.2	63-131	0.483	20	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/12/2024 5:26:37PM

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

Blank (2423088-BLK1) Prepared: 06/06/24 Analyzed: 06/07/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.6	70-130			

LCS (2423088-BS2) Prepared: 06/06/24 Analyzed: 06/07/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			

Matrix Spike (2423088-MS2) Source: E406045-01 Prepared: 06/06/24 Analyzed: 06/07/24

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.95		8.00		99.4	70-130			

Matrix Spike Dup (2423088-MSD2) Source: E406045-01 Prepared: 06/06/24 Analyzed: 06/07/24

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	94.9	70-130	1.82	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/12/2024 5:26:37PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2423117-BLK1) Prepared: 06/06/24 Analyzed: 06/11/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.6		50.0		111	50-200			

LCS (2423117-BS1) Prepared: 06/06/24 Analyzed: 06/11/24

Diesel Range Organics (C10-C28)	271	25.0	250		109	38-132			
Surrogate: n-Nonane	54.3		50.0		109	50-200			

Matrix Spike (2423117-MS1) Source: E406045-07 Prepared: 06/06/24 Analyzed: 06/11/24

Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	52.8		50.0		106	50-200			

Matrix Spike Dup (2423117-MSD1) Source: E406045-07 Prepared: 06/06/24 Analyzed: 06/11/24

Diesel Range Organics (C10-C28)	271	25.0	250	ND	109	38-132	1.94	20	
Surrogate: n-Nonane	53.7		50.0		107	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 5:26:37PM
---	---	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2423141-BLK1)					Prepared: 06/07/24 Analyzed: 06/10/24				
Chloride	ND	20.0							
LCS (2423141-BS1)					Prepared: 06/07/24 Analyzed: 06/10/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2423141-MS1)					Source: E406045-03		Prepared: 06/07/24 Analyzed: 06/10/24		
Chloride	270	20.0	250	ND	108	80-120			
Matrix Spike Dup (2423141-MSD1)					Source: E406045-03		Prepared: 06/07/24 Analyzed: 06/10/24		
Chloride	271	20.0	250	ND	108	80-120	0.244	20	

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

Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/12/24 17:26

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

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

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



Project Information

Chain of Custody

Client: Matador Production Company					Bill To		Lab Use Only					TAT				EPA Program					
Project: Dagger State TB					Attention: Ensolum LLC		Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo					Address: on file		E400045		23003-0002						x						
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method										RCRA				
City, State, Zip: Carlsbad NM, 88220					Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State						
Phone: 575-988-0055					Email: agiovengo@ensolum.com										NM	CO	UT	AZ	TX		
Email: agiovengo@ensolum.com					Report due by:												Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																
10:01	6/4/2024	Soil	1	FS79 - 1'	1																
9:59	6/4/2024	Soil	1	FS78 - 1'	2																
10:02	6/4/2024	Soil	1	FS77 - 1'	3																
10:04	6/4/2024	Soil	1	FS76 - 1'	4																
10:06	6/4/2024	Soil	1	FS75 - 1'	5																
10:11	6/4/2024	Soil	1	FS74 - 1'	6																
10:07	6/4/2024	Soil	1	FS73 - 1'	7																
10:09	6/4/2024	Soil	1	FS72 - 1'	8																
10:12	6/4/2024	Soil	1	FS71 - 1'	9																
10:26	6/4/2024	Soil	1	FS70 - 1'	10																

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

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time	Lab Use Only		
			6/5/24	9:21				6-5-24	0921	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N		
			6-5-24	1650				6-5-24	1650	T1 _____ T2 _____ T3 _____		
			6-5-24	2400				6-5-24	2400	AVG Temp °C <u>4</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

Client: Matador Production Company					Bill To		Lab Use Only								TAT				EPA Program	
Project: Dagger State TB					Attention: Ensolum LLC		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo					Address: on file		E 400045		230080000					x						
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method										RCRA			
City, State, Zip: Carlsbad NM, 88220					Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State					
Phone: 575-988-0055					Email: agiovengo@ensolum.com										NM	CO				
Email: agiovengo@ensolum.com															UT	AZ				
Report due by:															TX					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks			
10:14	6/4/2024	Soil	1	FS69 - 1'	11															
10:16	6/4/2024	Soil	1	FS68 - 1'	12															
10:25	6/4/2024	Soil	1	FS67 - 1'	13															
10:27	6/4/2024	Soil	1	FS66 - 1'	14															
10:29	6/4/2024	Soil	1	FS65 - 1'	15															
10:24	6/4/2024	Soil	1	FS63 - 1'	16															
10:18	6/4/2024	Soil	1	FS62 - 1'	17															
10:19	6/4/2024	Soil	1	FS61 - 1'	18															
10:20	6/4/2024	Soil	1	FS60 - 1'	19															
10:22	6/4/2024	Soil	1	FS59 - 1'	20															

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	6/5/24	9:21	Michelle Gonzales	6.5.24	0921
Michelle Gonzales	6.5.24	1650	<i>[Signature]</i>	6.5.24	1650
<i>[Signature]</i>	6.5.24	2400	<i>[Signature]</i>	6/6/24	900

Received on ice: Y N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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

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

Note: Samples are discarded 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: 6/7/2024 1:09:14PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/06/24 09:00	Work Order ID:	E406045
Phone:	(972) 371-5200	Date Logged In:	06/05/24 20:27	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	06/12/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CouierComments/Resolution

Due to high sample volume project Dagger State TB has been separated into multiple WO E406045 and E406046.

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: Dagger State TB

Work Order: E406046

Job Number: 23003-0002

Received: 6/6/2024

Revision: 5

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/20/24

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: 6/20/24

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



Project Name: Dagger State TB
Workorder: E406046
Date Received: 6/6/2024 9:00:56AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/6/2024 9:00:56AM, under the Project Name: Dagger State TB.

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

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
FS57-1'	8
FS56-1'	9
FS55-1'	10
FS54-1'	11
FS53-1'	12
FS52-1'	13
FS51-1'	14
FS50-1'	15
FS49-1'	16
FS47-1'	17
FS46-1'	18
FS44-1'	19
FS43-1'	20
FS42-1'	21
FS41-1'	22
FS40-1'	23
FS39-1'	24
FS38-1'	25
FS36-1'	26
FS34-1'	27
FS29-1'	28

Table of Contents (continued)

QC Summary Data	29
QC - Volatile Organic Compounds by EPA8260B	29
QC - Volatile Organics by EPA 8021B	30
QC - Nonhalogenated Organics by EPA 8015D - GRO	31
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	33
QC - Anions by EPA 300.0/9056A	36
Definitions and Notes	38
Chain of Custody etc.	39

Sample Summary

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/20/24 14:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS58-1'	E406046-01A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS57-1'	E406046-02A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS56-1'	E406046-03A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS55-1'	E406046-04A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS54-1'	E406046-05A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS53-1'	E406046-06A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS52-1'	E406046-07A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS51-1'	E406046-08A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS50-1'	E406046-09A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS49-1'	E406046-10A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS47-1'	E406046-11A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS46-1'	E406046-12A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS44-1'	E406046-13A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS43-1'	E406046-14A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS42-1'	E406046-15A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS41-1'	E406046-16A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS40-1'	E406046-17A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS39-1'	E406046-18A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS38-1'	E406046-19A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS36-1'	E406046-20A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS34-1'	E406046-21A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
FS29-1'	E406046-22A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.



Case Narrative:

Project Name: Dagger State TB

Workorder: E406046

Date Received: 06-06-2024

The client requested the following sample(s) to be re-extracted and re-analyzed:

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Analysis</u>
FS44-1'	E406046-13	Nonhalogenated Organics by EPA 8015D- DRO/ORO

The analytical test results summarized in this revised report represent this re-extraction and re-analysis.

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

Respectfully,

Walter Hinchman



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS58-1'

E406046-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: Bromofluorobenzene	104 %	70-130		06/06/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		06/06/24	06/07/24	
Surrogate: Toluene-d8	98.2 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: Bromofluorobenzene	104 %	70-130		06/06/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130		06/06/24	06/07/24	
Surrogate: Toluene-d8	98.2 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/10/24	
Surrogate: n-Nonane	109 %	50-200		06/06/24	06/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS57-1'
E406046-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/06/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	06/06/24	06/07/24	
Surrogate: Toluene-d8		99.6 %	70-130	06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/06/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	06/06/24	06/07/24	
Surrogate: Toluene-d8		99.6 %	70-130	06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/10/24	
Surrogate: n-Nonane		114 %	50-200	06/06/24	06/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	29.7	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS56-1'
E406046-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/06/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	06/06/24	06/07/24	
Surrogate: Toluene-d8		98.3 %	70-130	06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/06/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	06/06/24	06/07/24	
Surrogate: Toluene-d8		98.3 %	70-130	06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/10/24	
Surrogate: n-Nonane		112 %	50-200	06/06/24	06/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	41.5	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS55-1'
E406046-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/06/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	06/06/24	06/07/24	
Surrogate: Toluene-d8		97.5 %	70-130	06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/06/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	06/06/24	06/07/24	
Surrogate: Toluene-d8		97.5 %	70-130	06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/10/24	
Surrogate: n-Nonane		113 %	50-200	06/06/24	06/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS54-1'
E406046-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: Bromofluorobenzene		100 %	70-130	06/06/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	06/06/24	06/07/24	
Surrogate: Toluene-d8		98.4 %	70-130	06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: Bromofluorobenzene		100 %	70-130	06/06/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	06/06/24	06/07/24	
Surrogate: Toluene-d8		98.4 %	70-130	06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/10/24	
Surrogate: n-Nonane		110 %	50-200	06/06/24	06/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	ND	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS53-1'

E406046-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	0.0265	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	0.0485	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: Bromofluorobenzene	102 %	70-130		06/06/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130		06/06/24	06/07/24	
Surrogate: Toluene-d8	99.3 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: Bromofluorobenzene	102 %	70-130		06/06/24	06/07/24	
Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130		06/06/24	06/07/24	
Surrogate: Toluene-d8	99.3 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/10/24	
Surrogate: n-Nonane	109 %	50-200		06/06/24	06/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	42.7	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS52-1'

E406046-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.2 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.2 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	27.9	25.0	1	06/06/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/10/24	
Surrogate: n-Nonane		110 %	50-200	06/06/24	06/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	20.9	20.0	1	06/07/24	06/10/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS51-1'
E406046-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.3 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.3 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	29.5	25.0	1	06/06/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/10/24	
Surrogate: n-Nonane		115 %	50-200	06/06/24	06/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	35.4	20.0	1	06/07/24	06/11/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS50-1'
E406046-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		98.9 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		98.9 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	28.4	25.0	1	06/06/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/10/24	
Surrogate: n-Nonane		110 %	50-200	06/06/24	06/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	33.3	20.0	1	06/07/24	06/11/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS49-1'

E406046-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene	99.5 %	70-130		06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		06/06/24	06/08/24	
Surrogate: Toluene-d8	97.6 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene	99.5 %	70-130		06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		06/06/24	06/08/24	
Surrogate: Toluene-d8	97.6 %	70-130		06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/10/24	
Surrogate: n-Nonane	112 %	50-200		06/06/24	06/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	ND	20.0	1	06/07/24	06/11/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS47-1'

E406046-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		98.0 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		98.0 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/10/24	
Surrogate: n-Nonane		111 %	50-200	06/06/24	06/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	ND	20.0	1	06/07/24	06/11/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS46-1'
E406046-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		104 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		99.1 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		104 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		99.1 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane		110 %	50-200	06/06/24	06/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	22.2	20.0	1	06/07/24	06/11/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS44-1'

E406046-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		98.5 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		98.5 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424053
Diesel Range Organics (C10-C28)	39.0	25.0	1	06/12/24	06/12/24	
Oil Range Organics (C28-C36)	54.5	50.0	1	06/12/24	06/12/24	
Surrogate: n-Nonane		115 %	50-200	06/12/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	47.4	20.0	1	06/07/24	06/11/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS43-1'

E406046-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		100 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.5 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		100 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.5 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane		109 %	50-200	06/06/24	06/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	ND	20.0	1	06/07/24	06/11/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS42-1'

E406046-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.6 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.6 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane		109 %	50-200	06/06/24	06/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	ND	20.0	1	06/07/24	06/11/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/20/2024 2:51:26PM

FS41-1'

E406046-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.9 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.9 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane		109 %	50-200	06/06/24	06/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	22.2	20.0	1	06/07/24	06/11/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS40-1'
E406046-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.0 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.0 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane		110 %	50-200	06/06/24	06/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	ND	20.0	1	06/07/24	06/11/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS39-1'

E406046-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		98.1 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		98.1 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane		111 %	50-200	06/06/24	06/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	25.6	20.0	1	06/07/24	06/11/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/20/2024 2:51:26PM

FS38-1'

E406046-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		104 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		98.6 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		104 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		98.6 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane		111 %	50-200	06/06/24	06/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	ND	20.0	1	06/07/24	06/11/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS36-1'
E406046-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Benzene	ND	0.0250	1	06/06/24	06/08/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/08/24	
Toluene	ND	0.0250	1	06/06/24	06/08/24	
o-Xylene	ND	0.0250	1	06/06/24	06/08/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/08/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.8 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2423089
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/08/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/06/24	06/08/24	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	06/06/24	06/08/24	
Surrogate: Toluene-d8		97.8 %	70-130	06/06/24	06/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423118
Diesel Range Organics (C10-C28)	25.7	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	50.6	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane		112 %	50-200	06/06/24	06/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2423143
Chloride	31.9	20.0	1	06/07/24	06/11/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS34-1'

E406046-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423087	
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.4 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2423116	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/08/24	
Surrogate: n-Nonane	94.7 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2423133	
Chloride	30.8	20.0	1	06/07/24	06/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	----------------------------------

FS29-1'

E406046-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2423087	
Benzene	ND	0.0250	1	06/06/24	06/07/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/07/24	
Toluene	ND	0.0250	1	06/06/24	06/07/24	
o-Xylene	ND	0.0250	1	06/06/24	06/07/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/07/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/07/24	
Surrogate: 4-Bromochlorobenzene-PID	93.3 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2423087	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.4 %	70-130		06/06/24	06/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2423116	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/24	06/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/24	06/08/24	
Surrogate: n-Nonane	94.4 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2423133	
Chloride	50.8	20.0	1	06/07/24	06/07/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/20/2024 2:51:26PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2423089-BLK1) Prepared: 06/06/24 Analyzed: 06/07/24

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	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2423089-BS1) Prepared: 06/06/24 Analyzed: 06/07/24

Benzene	2.41	0.0250	2.50		96.3	70-130			
Ethylbenzene	2.49	0.0250	2.50		99.5	70-130			
Toluene	2.36	0.0250	2.50		94.3	70-130			
o-Xylene	2.57	0.0250	2.50		103	70-130			
p,m-Xylene	5.11	0.0500	5.00		102	70-130			
Total Xylenes	7.68	0.0250	7.50		102	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

Matrix Spike (2423089-MS1) Source: E406046-03 Prepared: 06/06/24 Analyzed: 06/07/24

Benzene	2.50	0.0250	2.50	ND	100	48-131			
Ethylbenzene	2.62	0.0250	2.50	ND	105	45-135			
Toluene	2.46	0.0250	2.50	ND	98.5	48-130			
o-Xylene	2.80	0.0250	2.50	ND	112	43-135			
p,m-Xylene	5.57	0.0500	5.00	ND	111	43-135			
Total Xylenes	8.37	0.0250	7.50	ND	112	43-135			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike Dup (2423089-MSD1) Source: E406046-03 Prepared: 06/06/24 Analyzed: 06/07/24

Benzene	2.49	0.0250	2.50	ND	99.6	48-131	0.421	23	
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135	1.71	27	
Toluene	2.43	0.0250	2.50	ND	97.1	48-130	1.37	24	
o-Xylene	2.76	0.0250	2.50	ND	110	43-135	1.42	27	
p,m-Xylene	5.47	0.0500	5.00	ND	109	43-135	1.86	27	
Total Xylenes	8.23	0.0250	7.50	ND	110	43-135	1.71	27	
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/20/2024 2:51:26PM

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

Blank (2423087-BLK1) Prepared: 06/06/24 Analyzed: 06/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.6	70-130			

LCS (2423087-BS1) Prepared: 06/06/24 Analyzed: 06/06/24

Benzene	4.76	0.0250	5.00		95.2	70-130			
Ethylbenzene	4.60	0.0250	5.00		91.9	70-130			
Toluene	4.70	0.0250	5.00		94.0	70-130			
o-Xylene	4.58	0.0250	5.00		91.7	70-130			
p,m-Xylene	9.33	0.0500	10.0		93.3	70-130			
Total Xylenes	13.9	0.0250	15.0		92.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			

Matrix Spike (2423087-MS1) Source: E406036-08 Prepared: 06/06/24 Analyzed: 06/06/24

Benzene	4.67	0.0250	5.00	ND	93.5	54-133			
Ethylbenzene	4.49	0.0250	5.00	ND	89.9	61-133			
Toluene	4.60	0.0250	5.00	ND	92.0	61-130			
o-Xylene	4.49	0.0250	5.00	ND	89.7	63-131			
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	63-131			
Total Xylenes	13.6	0.0250	15.0	ND	90.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			

Matrix Spike Dup (2423087-MSD1) Source: E406036-08 Prepared: 06/06/24 Analyzed: 06/06/24

Benzene	4.68	0.0250	5.00	ND	93.7	54-133	0.248	20	
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133	0.803	20	
Toluene	4.62	0.0250	5.00	ND	92.5	61-130	0.502	20	
o-Xylene	4.52	0.0250	5.00	ND	90.4	63-131	0.731	20	
p,m-Xylene	9.20	0.0500	10.0	ND	92.0	63-131	1.02	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.5	63-131	0.923	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/20/2024 2:51:26PM

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

Blank (2423087-BLK1) Prepared: 06/06/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.7	70-130			

LCS (2423087-BS2) Prepared: 06/06/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			

Matrix Spike (2423087-MS2) Source: E406036-08 Prepared: 06/06/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.2	70-130			

Matrix Spike Dup (2423087-MSD2) Source: E406036-08 Prepared: 06/06/24 Analyzed: 06/06/24

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130	3.52	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.06		8.00		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported: 6/20/2024 2:51:26PM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

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

Blank (2423089-BLK1)

Prepared: 06/06/24 Analyzed: 06/07/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.489		0.500		97.8	70-130			

LCS (2423089-BS2)

Prepared: 06/06/24 Analyzed: 06/07/24

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.7	70-130			
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			

Matrix Spike (2423089-MS2)

Source: E406046-03

Prepared: 06/06/24 Analyzed: 06/07/24

Gasoline Range Organics (C6-C10)	43.5	20.0	50.0	ND	87.0	70-130			
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Matrix Spike Dup (2423089-MSD2)

Source: E406046-03

Prepared: 06/06/24 Analyzed: 06/07/24

Gasoline Range Organics (C6-C10)	43.0	20.0	50.0	ND	86.0	70-130	1.13	20	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/20/2024 2:51:26PM

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

Blank (2423116-BLK1)					Prepared: 06/06/24 Analyzed: 06/08/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.1		50.0		88.1	50-200			

LCS (2423116-BS1)					Prepared: 06/06/24 Analyzed: 06/08/24				
Diesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132			
Surrogate: n-Nonane	49.2		50.0		98.5	50-200			

Matrix Spike (2423116-MS1)					Source: E406030-04		Prepared: 06/06/24 Analyzed: 06/08/24		
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132			
Surrogate: n-Nonane	46.2		50.0		92.5	50-200			

Matrix Spike Dup (2423116-MSD1)					Source: E406030-04		Prepared: 06/06/24 Analyzed: 06/08/24		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132	0.579	20	
Surrogate: n-Nonane	46.5		50.0		93.0	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/20/2024 2:51:26PM

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

Blank (2423118-BLK1)					Prepared: 06/06/24 Analyzed: 06/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.2		50.0		114	50-200			

LCS (2423118-BS1)					Prepared: 06/06/24 Analyzed: 06/10/24				
Diesel Range Organics (C10-C28)	303	25.0	250		121	38-132			
Surrogate: n-Nonane	56.5		50.0		113	50-200			

Matrix Spike (2423118-MS1)					Source: E406046-03		Prepared: 06/06/24 Analyzed: 06/10/24		
Diesel Range Organics (C10-C28)	325	25.0	250	ND	130	38-132			
Surrogate: n-Nonane	59.4		50.0		119	50-200			

Matrix Spike Dup (2423118-MSD1)					Source: E406046-03		Prepared: 06/06/24 Analyzed: 06/10/24		
Diesel Range Organics (C10-C28)	318	25.0	250	ND	127	38-132	2.30	20	
Surrogate: n-Nonane	56.0		50.0		112	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/20/2024 2:51:26PM

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

Blank (2424053-BLK1)					Prepared: 06/12/24 Analyzed: 06/12/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.3		50.0		109	50-200			

LCS (2424053-BS1)					Prepared: 06/12/24 Analyzed: 06/12/24				
Diesel Range Organics (C10-C28)	279	25.0	250		111	38-132			
Surrogate: n-Nonane	53.1		50.0		106	50-200			

Matrix Spike (2424053-MS1)					Source: E406097-02		Prepared: 06/12/24 Analyzed: 06/12/24		
Diesel Range Organics (C10-C28)	299	25.0	250	ND	120	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

Matrix Spike Dup (2424053-MSD1)					Source: E406097-02		Prepared: 06/12/24 Analyzed: 06/12/24		
Diesel Range Organics (C10-C28)	308	25.0	250	ND	123	38-132	2.97	20	
Surrogate: n-Nonane	54.5		50.0		109	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/20/2024 2:51:26PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2423133-BLK1)					Prepared: 06/07/24 Analyzed: 06/07/24				
Chloride	ND	20.0							
LCS (2423133-BS1)					Prepared: 06/07/24 Analyzed: 06/07/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2423133-MS1)					Source: E406052-02		Prepared: 06/07/24 Analyzed: 06/07/24		
Chloride	440	20.0	250	148	117	80-120			
Matrix Spike Dup (2423133-MSD1)					Source: E406052-02		Prepared: 06/07/24 Analyzed: 06/07/24		
Chloride	447	20.0	250	148	120	80-120	1.60	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/20/2024 2:51:26PM
---	---	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2423143-BLK1)					Prepared: 06/07/24 Analyzed: 06/10/24				
Chloride	ND	20.0							
LCS (2423143-BS1)					Prepared: 06/07/24 Analyzed: 06/10/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2423143-MS1)					Source: E406046-05		Prepared: 06/07/24 Analyzed: 06/10/24		
Chloride	269	20.0	250	ND	108	80-120			
Matrix Spike Dup (2423143-MSD1)					Source: E406046-05		Prepared: 06/07/24 Analyzed: 06/10/24		
Chloride	273	20.0	250	ND	109	80-120	1.52	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/20/24 14:51

- 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: Dagger State TB					Attention: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Ashley Giovengo					Address: on file		E400040	230030002				x							
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method							RCRA					
City, State, Zip: Carlsbad NM, 88220					Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055					Email: agiovengo@ensolum.com										NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com					Report due by:										Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														
10:39	6/4/2024	Soil	1	FS58 - 1'	1								X						
10:47	6/4/2024	Soil	1	FS57 - 1'	2								X						
10:45	6/4/2024	Soil	1	FS56 - 1'	3								X						
10:41	6/4/2024	Soil	1	FS55 - 1'	4								X						
10:42	6/4/2024	Soil	1	FS54 - 1'	5								X						
10:43	6/4/2024	Soil	1	FS53 - 1'	6								X						
10:51	6/4/2024	Soil	1	FS52 - 1'	7								X						
10:49	6/4/2024	Soil	1	FS51 - 1'	8								X						
10:57	6/4/2024	Soil	1	FS50 - 1'	9								X						
10:55	6/4/2024	Soil	1	FS49 - 1'	10								X						

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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)			Date	Time	Received by: (Signature)			Date	Time	Lab Use Only		
			6/5/24	9:21				6.5.24	0921	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N		
			6.5.24	1650				6.5.24	1650	T1 _____ T2 _____ T3 _____		
			6.5.24	2400				6.5.24	900	AVG Temp °C <u>4</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.



Client: Matador Production Company					Bill To		Lab Use Only		TAT				EPA Program						
Project: Dagger State TB					Attention: Ensolum LLC		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovengo					Address: on file		E 401046123003-0002							x					
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method								RCRA				
City, State, Zip: Carlsbad NM, 88220					Phone: 575-988-0055		TPH GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055					Email: agiovengo@ensolum.com										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														
11:01	6/4/2024	Soil	1	FS47 - 1'	11										x				
10:59	6/4/2024	Soil	1	FS46 - 1'	12										x				
11:02	6/4/2024	Soil	1	FS44 - 1'	13										x				
11:04	6/4/2024	Soil	1	FS43 - 1'	14										x				
11:21	6/4/2024	Soil	1	FS42 - 1'	15										x				
11:13	6/4/2024	Soil	1	FS41 - 1'	16										x				
11:11	6/4/2024	Soil	1	FS40 - 1'	17										x				
11:09	6/4/2024	Soil	1	FS39 - 1'	18										x				
11:31	6/4/2024	Soil	1	FS38 - 1'	19										x				
11:27	6/4/2024	Soil	1	FS36 - 1'	20										x				

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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.

Sampled by:				Lab Use Only			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N	
<i>[Signature]</i>	6/5/24	9:21	<i>Michelle Gonzales</i>	6.5.24	0921		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____	
<i>Michelle Gonzales</i>	6.5.24	1650	<i>[Signature]</i>	6.5.24	1650		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>	
<i>[Signature]</i>	6.5.24	2400	<i>[Signature]</i>	6/6/24	900		

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.



[illegible]

Envirotech Analytical Laboratory

Printed: 6/7/2024 1:22:29PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/06/24 09:00	Work Order ID:	E406046
Phone:	(972) 371-5200	Date Logged In:	06/05/24 20:31	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	06/12/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CouierComments/Resolution

Due to high sample volume project Dagger State TB has been separated into multiple WO E406045 and E406046.

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.

Client: Matador Production Company		Bill To		Lab Use Only				TAT				EPA Program	
Project: Dagger State TB		Attention: Ensolum LLC		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		E400046		23003-0002					x		
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method								RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0	
Phone: 575-988-0055		Email: agiovengo@ensolum.com								TCEQ TPH		BGDOC NM	
Email: agiovengo@ensolum.com												GDOC TX	
Report due by:												State	
												NM CO UT AZ TX	
												x	
												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	TCEQ TPH	BGDOC NM	GDOC TX	Remarks
10:39	6/4/2024	Soil	1	FS58 - 1'	1							X		
10:47	6/4/2024	Soil	1	FS57 - 1'	2							X		
10:45	6/4/2024	Soil	1	FS56 - 1'	3							X		
10:41	6/4/2024	Soil	1	FS55 - 1'	4							X		
10:42	6/4/2024	Soil	1	FS54 - 1'	5							X		
10:43	6/4/2024	Soil	1	FS53 - 1'	6							X		
10:51	6/4/2024	Soil	1	FS52 - 1'	7							X		
10:49	6/4/2024	Soil	1	FS51 - 1'	8							X		
10:57	6/4/2024	Soil	1	FS50 - 1'	9							X		
10:55	6/4/2024	Soil	1	FS49 - 1'	10							X		

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

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

Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>[Signature]</i>	6/5/24	9:21	Michelle Gonzales	6-5-24	0921	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gonzales</i>	6-5-24	1650	<i>[Signature]</i>	6.5.24	1650	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	6.5.24	2400	<i>[Signature]</i>	6/6/24	900	

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

Released to Imaging: 8/26/2024 8:44:13 AM

Received by OCD: 7/17/2024 1:42:48 PM

Client: Matador Production Company		Bill To		Lab Use Only				TAT				EPA Program		
Project: Dagger State TB		Attention: Ensolum LLC		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo		Address: on file		E400046		23003-0003					x			
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method										RCRA
City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055												
Phone: 575-988-0055		Email: agiovengo@ensolum.com												
Email: agiovengo@ensolum.com		State												
Report due by:		NM CO UT AZ TX												

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	TCEQ TPH	BGDOC NM	GDOC TX	Remarks
11:01	6/4/2024	Soil	1	FS47 - 1'	11							X		
10:59	6/4/2024	Soil	1	FS46 - 1'	12							X		
11:02	6/4/2024	Soil	1	FS44 - 1'	13							X		X Added per A. Giovengo 6/12/24 via email RAS
11:04	6/4/2024	Soil	1	FS43 - 1'	14							X		
11:21	6/4/2024	Soil	1	FS42 - 1'	15							X		
11:13	6/4/2024	Soil	1	FS41 - 1'	16							X		
11:11	6/4/2024	Soil	1	FS40 - 1'	17							X		
11:09	6/4/2024	Soil	1	FS39 - 1'	18							X		
11:31	6/4/2024	Soil	1	FS38 - 1'	19							X		
11:27	6/4/2024	Soil	1	FS36 - 1'	20							X		

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

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

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Michelle Gonzales		6-5-24	1650	L.H.		6.5.24	1650	
L.H.		6.5.24	2400	[Signature]		6/6/24	900	

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.

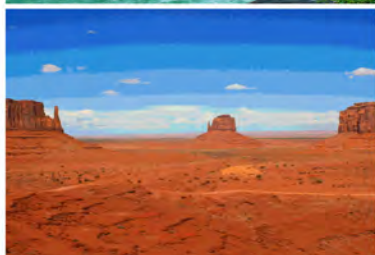


Page 171 of 318

Page 45 of 45

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dagger State TB

Work Order: E406063

Job Number: 23003-0002

Received: 6/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/13/24

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: 6/13/24

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



Project Name: Dagger State TB
Workorder: E406063
Date Received: 6/7/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/7/2024 8:00:00AM, under the Project Name: Dagger State TB.

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

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH06-0'	5
BH06-2'	6
BH06-3'	7
FS03-2'	8
FS33-1'	9
FS35-1'	10
FS37-1'	11
FS45-1'	12
FS48-1'	13
QC Summary Data	14
QC - Volatile Organic Compounds by EPA 8260B	14
QC - Nonhalogenated Organics by EPA 8015D - GRO	15
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	16
QC - Anions by EPA 300.0/9056A	17
Definitions and Notes	18
Chain of Custody etc.	19

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/13/24 14:00
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06-0'	E406063-01A	Soil	06/05/24	06/07/24	Glass Jar, 2 oz.
BH06-2'	E406063-02A	Soil	06/05/24	06/07/24	Glass Jar, 2 oz.
BH06-3'	E406063-03A	Soil	06/05/24	06/07/24	Glass Jar, 2 oz.
FS03-2'	E406063-04A	Soil	06/05/24	06/07/24	Glass Jar, 2 oz.
FS33-1'	E406063-05A	Soil	06/05/24	06/07/24	Glass Jar, 2 oz.
FS35-1'	E406063-06A	Soil	06/05/24	06/07/24	Glass Jar, 2 oz.
FS37-1'	E406063-07A	Soil	06/05/24	06/07/24	Glass Jar, 2 oz.
FS45-1'	E406063-08A	Soil	06/05/24	06/07/24	Glass Jar, 2 oz.
FS48-1'	E406063-09A	Soil	06/05/24	06/07/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/13/2024 2:00:16PM
---	---	----------------------------------

BH06-0'

E406063-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA		Batch: 2423135	
Benzene	ND	0.0250	1	06/07/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/07/24	06/13/24	
Toluene	ND	0.0250	1	06/07/24	06/13/24	
o-Xylene	ND	0.0250	1	06/07/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/07/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	06/07/24	06/13/24	
Surrogate: Toluene-d8		101 %	70-130	06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2423135	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	06/07/24	06/13/24	
Surrogate: Toluene-d8		101 %	70-130	06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2423129	
Diesel Range Organics (C10-C28)	12400	250	10	06/07/24	06/08/24	
Oil Range Organics (C28-C36)	8340	500	10	06/07/24	06/08/24	
Surrogate: n-Nonane		106 %	50-200	06/07/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2423133	
Chloride	5430	100	5	06/07/24	06/07/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/13/2024 2:00:16PM

BH06-2'

E406063-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Benzene	ND	0.0250	1	06/07/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/07/24	06/13/24	
Toluene	ND	0.0250	1	06/07/24	06/13/24	
o-Xylene	ND	0.0250	1	06/07/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/07/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	06/07/24	06/13/24	
Surrogate: Toluene-d8		99.9 %	70-130	06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	06/07/24	06/13/24	
Surrogate: Toluene-d8		99.9 %	70-130	06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423129
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/24	06/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/24	06/08/24	
Surrogate: n-Nonane		106 %	50-200	06/07/24	06/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423133
Chloride	ND	20.0	1	06/07/24	06/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/13/2024 2:00:16PM
---	---	----------------------------------

BH06-3'

E406063-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Benzene	ND	0.0250	1	06/07/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/07/24	06/13/24	
Toluene	ND	0.0250	1	06/07/24	06/13/24	
o-Xylene	ND	0.0250	1	06/07/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/07/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	06/07/24	06/13/24	
Surrogate: Toluene-d8		99.5 %	70-130	06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	06/07/24	06/13/24	
Surrogate: Toluene-d8		99.5 %	70-130	06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423129
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/24	06/10/24	
Surrogate: n-Nonane		93.5 %	50-200	06/07/24	06/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423133
Chloride	ND	20.0	1	06/07/24	06/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/13/2024 2:00:16PM
---	---	----------------------------------

FS03-2'
E406063-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Benzene	ND	0.0250	1	06/07/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/07/24	06/13/24	
Toluene	ND	0.0250	1	06/07/24	06/13/24	
o-Xylene	ND	0.0250	1	06/07/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/07/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene		98.3 %	70-130	06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	06/07/24	06/13/24	
Surrogate: Toluene-d8		99.8 %	70-130	06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene		98.3 %	70-130	06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	06/07/24	06/13/24	
Surrogate: Toluene-d8		99.8 %	70-130	06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423129
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/24	06/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/24	06/08/24	
Surrogate: n-Nonane		109 %	50-200	06/07/24	06/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423133
Chloride	28.0	20.0	1	06/07/24	06/07/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/13/2024 2:00:16PM

FS33-1'

E406063-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Benzene	ND	0.0250	1	06/07/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/07/24	06/13/24	
Toluene	ND	0.0250	1	06/07/24	06/13/24	
o-Xylene	ND	0.0250	1	06/07/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/07/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		06/07/24	06/13/24	
Surrogate: Toluene-d8	100 %	70-130		06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		06/07/24	06/13/24	
Surrogate: Toluene-d8	100 %	70-130		06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423129
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/24	06/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/24	06/08/24	
Surrogate: n-Nonane	110 %	50-200		06/07/24	06/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423133
Chloride	28.1	20.0	1	06/07/24	06/07/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/13/2024 2:00:16PM

FS35-1'

E406063-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Benzene	ND	0.0250	1	06/07/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/07/24	06/13/24	
Toluene	ND	0.0250	1	06/07/24	06/13/24	
o-Xylene	ND	0.0250	1	06/07/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/07/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/07/24	06/13/24	
Surrogate: Toluene-d8	99.2 %	70-130		06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/07/24	06/13/24	
Surrogate: Toluene-d8	99.2 %	70-130		06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423129
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/24	06/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/24	06/08/24	
Surrogate: n-Nonane	108 %	50-200		06/07/24	06/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423133
Chloride	22.9	20.0	1	06/07/24	06/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/13/2024 2:00:16PM
---	---	----------------------------------

FS37-1'
E406063-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Benzene	ND	0.0250	1	06/07/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/07/24	06/13/24	
Toluene	ND	0.0250	1	06/07/24	06/13/24	
o-Xylene	ND	0.0250	1	06/07/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/07/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		06/07/24	06/13/24	
Surrogate: Toluene-d8	100 %	70-130		06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene	99.6 %	70-130		06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		06/07/24	06/13/24	
Surrogate: Toluene-d8	100 %	70-130		06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423129
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/24	06/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/24	06/08/24	
Surrogate: n-Nonane	68.7 %	50-200		06/07/24	06/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423133
Chloride	ND	20.0	1	06/07/24	06/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/13/2024 2:00:16PM
---	---	----------------------------------

FS45-1'
E406063-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Benzene	ND	0.0250	1	06/07/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/07/24	06/13/24	
Toluene	ND	0.0250	1	06/07/24	06/13/24	
o-Xylene	ND	0.0250	1	06/07/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/07/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/07/24	06/13/24	
Surrogate: Toluene-d8	100 %	70-130		06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene	98.2 %	70-130		06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		06/07/24	06/13/24	
Surrogate: Toluene-d8	100 %	70-130		06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423129
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/24	06/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/24	06/08/24	
Surrogate: n-Nonane	80.9 %	50-200		06/07/24	06/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423133
Chloride	37.8	20.0	1	06/07/24	06/07/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/13/2024 2:00:16PM

FS48-1'

E406063-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Benzene	ND	0.0250	1	06/07/24	06/13/24	
Ethylbenzene	ND	0.0250	1	06/07/24	06/13/24	
Toluene	ND	0.0250	1	06/07/24	06/13/24	
o-Xylene	ND	0.0250	1	06/07/24	06/13/24	
p,m-Xylene	ND	0.0500	1	06/07/24	06/13/24	
Total Xylenes	ND	0.0250	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		06/07/24	06/13/24	
Surrogate: Toluene-d8	100 %	70-130		06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2423135
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/07/24	06/13/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		06/07/24	06/13/24	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		06/07/24	06/13/24	
Surrogate: Toluene-d8	100 %	70-130		06/07/24	06/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2423129
Diesel Range Organics (C10-C28)	38.0	25.0	1	06/07/24	06/08/24	
Oil Range Organics (C28-C36)	60.6	50.0	1	06/07/24	06/08/24	
Surrogate: n-Nonane	111 %	50-200		06/07/24	06/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423133
Chloride	43.8	20.0	1	06/07/24	06/07/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/13/2024 2:00:16PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2423135-BLK1) Prepared: 06/07/24 Analyzed: 06/13/24

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	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

LCS (2423135-BS1) Prepared: 06/07/24 Analyzed: 06/13/24

Benzene	2.52	0.0250	2.50		101	70-130			
Ethylbenzene	2.61	0.0250	2.50		104	70-130			
Toluene	2.48	0.0250	2.50		99.3	70-130			
o-Xylene	2.61	0.0250	2.50		104	70-130			
p,m-Xylene	5.08	0.0500	5.00		102	70-130			
Total Xylenes	7.69	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			

Matrix Spike (2423135-MS1) Source: E406063-06 Prepared: 06/07/24 Analyzed: 06/13/24

Benzene	2.51	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135			
Toluene	2.50	0.0250	2.50	ND	100	48-130			
o-Xylene	2.63	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.15	0.0500	5.00	ND	103	43-135			
Total Xylenes	7.78	0.0250	7.50	ND	104	43-135			
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike Dup (2423135-MSD1) Source: E406063-06 Prepared: 06/07/24 Analyzed: 06/13/24

Benzene	2.47	0.0250	2.50	ND	98.6	48-131	1.99	23	
Ethylbenzene	2.59	0.0250	2.50	ND	104	45-135	0.443	27	
Toluene	2.47	0.0250	2.50	ND	98.8	48-130	1.27	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	0.0190	27	
p,m-Xylene	5.19	0.0500	5.00	ND	104	43-135	0.735	27	
Total Xylenes	7.81	0.0250	7.50	ND	104	43-135	0.494	27	
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/13/2024 2:00:16PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2423135-BLK1) Prepared: 06/07/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

LCS (2423135-BS2) Prepared: 06/07/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0		97.0	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2423135-MS2) Source: E406063-06 Prepared: 06/07/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.7	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike Dup (2423135-MSD2) Source: E406063-06 Prepared: 06/07/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130	0.0754	20	
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/13/2024 2:00:16PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

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

Blank (2423129-BLK1) Prepared: 06/07/24 Analyzed: 06/07/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.0		50.0		114	50-200			

LCS (2423129-BS1) Prepared: 06/07/24 Analyzed: 06/07/24

Diesel Range Organics (C10-C28)	310	25.0	250		124	38-132			
Surrogate: n-Nonane	57.0		50.0		114	50-200			

Matrix Spike (2423129-MS1) Source: E406061-04 Prepared: 06/07/24 Analyzed: 06/07/24

Diesel Range Organics (C10-C28)	304	25.0	250	ND	122	38-132			
Surrogate: n-Nonane	59.1		50.0		118	50-200			

Matrix Spike Dup (2423129-MSD1) Source: E406061-04 Prepared: 06/07/24 Analyzed: 06/07/24

Diesel Range Organics (C10-C28)	328	25.0	250	ND	131	38-132	7.44	20	
Surrogate: n-Nonane	58.7		50.0		117	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/13/2024 2:00:16PM
---	---	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2423133-BLK1)					Prepared: 06/07/24 Analyzed: 06/07/24				
Chloride	ND	20.0							
LCS (2423133-BS1)					Prepared: 06/07/24 Analyzed: 06/07/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2423133-MS1)					Source: E406052-02		Prepared: 06/07/24 Analyzed: 06/07/24		
Chloride	440	20.0	250	148	117	80-120			
Matrix Spike Dup (2423133-MSD1)					Source: E406052-02		Prepared: 06/07/24 Analyzed: 06/07/24		
Chloride	447	20.0	250	148	120	80-120	1.60	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/13/24 14:00

- 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: Dagger State TB				Attention: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo				Address: on file				E4010063		23003-0000					x						
Address: 3122 National Parks Hwy				City, State, Zip:				Analysis and Method										RCRA			
City, State, Zip: Carlsbad NM, 88220				Phone: 575-988-0055														State			
Phone: 575-988-0055				Email: agiovengo@ensolum.com														NM		CO	
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	TCEQ TPH	BDOC NM	GDOC TX								
9:09	6/5/2024	Soil	1	BH06 - 0'	1							x									
9:13	6/5/2024	Soil	1	BH06 - 2'	2							x									
9:55	6/5/2024	Soil	1	BH06 - 3'	3							x									
12:08	6/5/2024	Soil	1	FS03 - 2'	4							x									
13:21	6/5/2024	Soil	1	FS33 - 1'	5							x									
12:24	6/5/2024	Soil	1	FS35 - 1'	6							x									
12:20	6/5/2024	Soil	1	FS37 - 1'	7							x									
12:18	6/5/2024	Soil	1	FS45 - 1'	8							x									
12:16	6/5/2024	Soil	1	FS48 - 1'	9							x									
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaf@ensolum.com, iestrella@ensolum.com																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only													
		4/4/24	8:41			6-6-24	1000	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3													
		6-6-24	1530			6-6-24	1730														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C													
		6-6-24	2400			6/7/24	800	4													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 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

Envirotech Analytical Laboratory

Printed: 6/7/2024 11:53:42AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/07/24 08:00	Work Order ID:	E406063
Phone:	(972) 371-5200	Date Logged In:	06/06/24 19:01	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	06/13/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CouierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

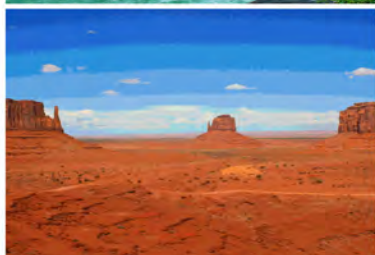
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dagger State TB

Work Order: E406075

Job Number: 23003-0002

Received: 6/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/14/24

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: 6/14/24

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



Project Name: Dagger State TB
Workorder: E406075
Date Received: 6/10/2024 6:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/10/2024 6:15:00AM, under the Project Name: Dagger State TB.

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

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS02-2'	5
FS13-4'	6
FS21-1'	7
FS64-1'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/14/24 13:10
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02-2'	E406075-01A	Soil	06/06/24	06/10/24	Glass Jar, 2 oz.
FS13-4'	E406075-02A	Soil	06/06/24	06/10/24	Glass Jar, 2 oz.
FS21-1'	E406075-03A	Soil	06/06/24	06/10/24	Glass Jar, 2 oz.
FS64-1'	E406075-04A	Soil	06/06/24	06/10/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/14/2024 1:10:21PM
---	---	----------------------------------

FS02-2'
E406075-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2424013	
Benzene	ND	0.0250	1	06/10/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/10/24	06/14/24	
Toluene	ND	0.0250	1	06/10/24	06/14/24	
o-Xylene	ND	0.0250	1	06/10/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/10/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/10/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		06/10/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2424013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		06/10/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2424032	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane	99.4 %	50-200		06/11/24	06/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2424022	
Chloride	52.9	20.0	1	06/10/24	06/12/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/14/2024 1:10:21PM
---	---	----------------------------------

FS13-4'
E406075-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2424013	
Benzene	ND	0.0250	1	06/10/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/10/24	06/14/24	
Toluene	ND	0.0250	1	06/10/24	06/14/24	
o-Xylene	ND	0.0250	1	06/10/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/10/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/10/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	92.8 %	70-130		06/10/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2424013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.3 %	70-130		06/10/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2424032	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane	100 %	50-200		06/11/24	06/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2424022	
Chloride	27.8	20.0	1	06/10/24	06/12/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/14/2024 1:10:21PM
---	---	----------------------------------

FS21-1'
E406075-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2424013	
Benzene	ND	0.0250	1	06/10/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/10/24	06/14/24	
Toluene	ND	0.0250	1	06/10/24	06/14/24	
o-Xylene	ND	0.0250	1	06/10/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/10/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/10/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	92.4 %	70-130		06/10/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2424013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.6 %	70-130		06/10/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2424032	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
Surrogate: n-Nonane	106 %	50-200		06/11/24	06/12/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2424022	
Chloride	20.0	20.0	1	06/10/24	06/12/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/14/2024 1:10:21PM

FS64-1'

E406075-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424013
Benzene	ND	0.0250	1	06/10/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/10/24	06/14/24	
Toluene	ND	0.0250	1	06/10/24	06/14/24	
o-Xylene	ND	0.0250	1	06/10/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/10/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/10/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		06/10/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424013
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.0 %	70-130		06/10/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424032
Diesel Range Organics (C10-C28)	ND	25.0	1	06/11/24	06/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/11/24	06/12/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		06/11/24	06/12/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2424022
Chloride	28.2	20.0	1	06/10/24	06/12/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/14/2024 1:10:21PM

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

Blank (2424013-BLK1) Prepared: 06/10/24 Analyzed: 06/13/24

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	7.38		8.00		92.3	70-130			

LCS (2424013-BS1) Prepared: 06/10/24 Analyzed: 06/13/24

Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	5.00	0.0250	5.00		100	70-130			
Toluene	5.12	0.0250	5.00		102	70-130			
o-Xylene	5.00	0.0250	5.00		99.9	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	7.36		8.00		92.0	70-130			

Matrix Spike (2424013-MS1) Source: E406074-01 Prepared: 06/10/24 Analyzed: 06/14/24

Benzene	5.19	0.0250	5.00	ND	104	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133			
Toluene	5.11	0.0250	5.00	ND	102	61-130			
o-Xylene	4.96	0.0250	5.00	ND	99.2	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2424013-MSD1) Source: E406074-01 Prepared: 06/10/24 Analyzed: 06/14/24

Benzene	5.12	0.0250	5.00	ND	102	54-133	1.30	20	
Ethylbenzene	4.90	0.0250	5.00	ND	98.1	61-133	1.72	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	1.60	20	
o-Xylene	4.89	0.0250	5.00	ND	97.8	63-131	1.35	20	
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131	1.63	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.9	63-131	1.54	20	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/14/2024 1:10:21PM

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

Blank (2424013-BLK1) Prepared: 06/10/24 Analyzed: 06/13/24

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

LCS (2424013-BS2) Prepared: 06/10/24 Analyzed: 06/13/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0		99.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

Matrix Spike (2424013-MS2) Source: E406074-01 Prepared: 06/10/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			

Matrix Spike Dup (2424013-MSD2) Source: E406074-01 Prepared: 06/10/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	0.500	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/14/2024 1:10:21PM

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

Blank (2424032-BLK1) Prepared: 06/11/24 Analyzed: 06/12/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.3		50.0		111	50-200			

LCS (2424032-BS1) Prepared: 06/11/24 Analyzed: 06/12/24

Diesel Range Organics (C10-C28)	281	25.0	250		113	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			

Matrix Spike (2424032-MS1) Source: E406050-04 Prepared: 06/11/24 Analyzed: 06/12/24

Diesel Range Organics (C10-C28)	297	25.0	250	32.3	106	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

Matrix Spike Dup (2424032-MSD1) Source: E406050-04 Prepared: 06/11/24 Analyzed: 06/12/24

Diesel Range Organics (C10-C28)	297	25.0	250	32.3	106	38-132	0.0425	20	
Surrogate: n-Nonane	52.9		50.0		106	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/14/2024 1:10:21PM
---	---	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2424022-BLK1)				Prepared: 06/10/24 Analyzed: 06/12/24					
Chloride	ND	20.0							
LCS (2424022-BS1)				Prepared: 06/10/24 Analyzed: 06/12/24					
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2424022-MS1)				Source: E406066-06		Prepared: 06/10/24 Analyzed: 06/12/24			
Chloride	276	20.0	250	22.4	101	80-120			
Matrix Spike Dup (2424022-MSD1)				Source: E406066-06		Prepared: 06/10/24 Analyzed: 06/12/24			
Chloride	274	20.0	250	22.4	101	80-120	0.631	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/14/24 13:10

- 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: Dagger State TB					Attention: Ensolum LLC					Lab WO#		Job Number			1D	2D	3D	Standard		CWA	SDWA	
Project Manager: Ashley Giovengo					Address: on file					E 400075		23003-0002						x				
Address: 3122 National Parks Hwy					City, State, Zip:					Analysis and Method											RCRA	
City, State, Zip: Carlsbad NM, 88220					Phone: 575-988-0055					TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055					Email: agiovengo@ensolum.com													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																	
14:23	6/6/2024	Soil	1	FS02 - 2'	1																	
10:17	6/6/2024	Soil	1	FS13 - 4'	2																	
10:06	6/6/2024	Soil	1	FS21 - 1'	3																	
9:49	6/6/2024	Soil	1	FS64 - 1'	4																	
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaff@ensolum.com, iestrella@ensolum.com																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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)					Date		Time		Received by: (Signature)					Date		Time		Lab Use Only				
					4/7/24		8:51							6-7-24		0851		Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N				
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		T1 T2 T3				
					6-7-24		1800							6-7-24		1800						
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		AVG Temp °C				
					6-8-24		0200							6/6/24		16:15		4				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA												
Note: Samples are discarded 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: 6/10/2024 9:16:32AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/10/24 06:15	Work Order ID:	E406075
Phone:	(972) 371-5200	Date Logged In:	06/10/24 07:51	Logged In By:	Raina Schwanz
Email:	agiovngo@ensolum.com	Due Date:	06/14/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Couier**Comments/Resolution**

Sampler listed on sample, but not on COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

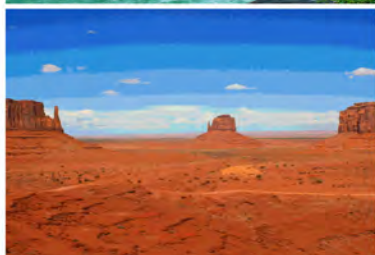
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dagger State TB

Work Order: E406104

Job Number: 23003-0002

Received: 6/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/17/24

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: 6/17/24

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



Project Name: Dagger State TB
Workorder: E406104
Date Received: 6/12/2024 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/12/2024 9:00:00AM, under the Project Name: Dagger State TB.

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

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SW1-1-5'	5
SW2-2-5'	6
FS04-5'	7
FS05-5'	8
FS06-5'	9
FS01-2.5'	10
FS19-1'	11
FS20-1'	12
FS22-1'	13
FS23-1'	14
FS24-1'	15
FS26-1'	16
FS08-1'	17
QC Summary Data	18
QC - Volatile Organics by EPA 8021B	18
QC - Nonhalogenated Organics by EPA 8015D - GRO	19
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	20
QC - Anions by EPA 300.0/9056A	21
Definitions and Notes	22
Chain of Custody etc.	23

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/17/24 16:01
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1-1-5'	E406104-01A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
SW2-2-5'	E406104-02A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS04-5'	E406104-03A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS05-5'	E406104-04A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS06-5'	E406104-05A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS01-2.5'	E406104-06A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS19-1'	E406104-07A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS20-1'	E406104-08A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS22-1'	E406104-09A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS23-1'	E406104-10A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS24-1'	E406104-11A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS26-1'	E406104-12A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS08-1'	E406104-13A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:01:36PM
---	---	----------------------------------

SW1-1-5'

E406104-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	90.4 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	113 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424071	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/14/24	
Surrogate: n-Nonane	91.1 %	50-200		06/12/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2424063	
Chloride	75.4	20.0	1	06/12/24	06/13/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/17/2024 4:01:36PM

SW2-2-5'

E406104-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2424059
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2424059
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	113 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424071
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	95.7 %	50-200		06/12/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424063
Chloride	84.8	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:01:36PM
---	---	----------------------------------

FS04-5'
E406104-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424071	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/14/24	
Surrogate: n-Nonane	90.1 %	50-200		06/12/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2424063	
Chloride	ND	20.0	1	06/12/24	06/13/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/17/2024 4:01:36PM

FS05-5'

E406104-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	112 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2424071	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	85.1 %	50-200		06/12/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2424063	
Chloride	ND	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:01:36PM
---	---	----------------------------------

FS06-5'
E406104-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	90.7 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424071	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/14/24	
Surrogate: n-Nonane	85.0 %	50-200		06/12/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2424063	
Chloride	88.5	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:01:36PM
---	---	----------------------------------

FS01-2.5'

E406104-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.6 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	112 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2424071	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/14/24	
<i>Surrogate: n-Nonane</i>						
	83.0 %	50-200		06/12/24	06/14/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2424063	
Chloride	277	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:01:36PM
---	---	----------------------------------

FS19-1'

E406104-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	90.7 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424071	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/14/24	
Surrogate: n-Nonane	85.3 %	50-200		06/12/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2424063	
Chloride	38.5	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:01:36PM
---	---	----------------------------------

FS20-1'
E406104-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	90.8 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	110 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424071	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/14/24	
Surrogate: n-Nonane	94.1 %	50-200		06/12/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2424063	
Chloride	93.5	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:01:36PM
---	---	----------------------------------

FS22-1'

E406104-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	90.6 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	110 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424071	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/14/24	
Surrogate: n-Nonane	92.1 %	50-200		06/12/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2424063	
Chloride	ND	20.0	1	06/12/24	06/14/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:01:36PM
---	---	----------------------------------

FS23-1'

E406104-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	109 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424071	
Diesel Range Organics (C10-C28)	38.7	25.0	1	06/12/24	06/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/14/24	
Surrogate: n-Nonane	91.5 %	50-200		06/12/24	06/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2424063	
Chloride	39.0	20.0	1	06/12/24	06/14/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:01:36PM
---	---	----------------------------------

FS24-1'

E406104-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	91.7 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424071	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/15/24	
Surrogate: n-Nonane	91.2 %	50-200		06/12/24	06/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2424063	
Chloride	30.4	20.0	1	06/12/24	06/14/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:01:36PM
---	---	----------------------------------

FS26-1'

E406104-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	110 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424071	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/15/24	
Surrogate: n-Nonane	93.9 %	50-200		06/12/24	06/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2424063	
Chloride	ND	20.0	1	06/12/24	06/14/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:01:36PM
---	---	----------------------------------

FS08-1'

E406104-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2424059	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2424071	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/15/24	
Surrogate: n-Nonane	92.5 %	50-200		06/12/24	06/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2424063	
Chloride	139	20.0	1	06/12/24	06/14/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/17/2024 4:01:36PM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2424059-BLK1)

Prepared: 06/12/24 Analyzed: 06/14/24

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	7.30		8.00		91.3	70-130			

LCS (2424059-BS1)

Prepared: 06/12/24 Analyzed: 06/14/24

Benzene	5.30	0.0250	5.00		106	70-130			
Ethylbenzene	4.98	0.0250	5.00		99.5	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.08	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.35		8.00		91.9	70-130			

Matrix Spike (2424059-MS1)

Source: E406104-03

Prepared: 06/12/24 Analyzed: 06/14/24

Benzene	4.93	0.0250	5.00	ND	98.5	54-133			
Ethylbenzene	4.63	0.0250	5.00	ND	92.5	61-133			
Toluene	4.85	0.0250	5.00	ND	97.0	61-130			
o-Xylene	4.72	0.0250	5.00	ND	94.4	63-131			
p,m-Xylene	9.52	0.0500	10.0	ND	95.2	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	95.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2424059-MSD1)

Source: E406104-03

Prepared: 06/12/24 Analyzed: 06/14/24

Benzene	5.05	0.0250	5.00	ND	101	54-133	2.56	20	
Ethylbenzene	4.74	0.0250	5.00	ND	94.9	61-133	2.51	20	
Toluene	4.97	0.0250	5.00	ND	99.4	61-130	2.47	20	
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131	2.42	20	
p,m-Xylene	9.76	0.0500	10.0	ND	97.6	63-131	2.48	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131	2.46	20	
Surrogate: 4-Bromochlorobenzene-PID	7.30		8.00		91.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/17/2024 4:01:36PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2424059-BLK1) Prepared: 06/12/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.88		8.00		111	70-130			

LCS (2424059-BS2) Prepared: 06/12/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.95		8.00		112	70-130			

Matrix Spike (2424059-MS2) Source: E406104-03 Prepared: 06/12/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	55.0	20.0	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.89		8.00		111	70-130			

Matrix Spike Dup (2424059-MSD2) Source: E406104-03 Prepared: 06/12/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130	1.70	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.89		8.00		111	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/17/2024 4:01:36PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2424071-BLK1) Prepared: 06/12/24 Analyzed: 06/14/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.2		50.0		94.3	50-200			

LCS (2424071-BS1) Prepared: 06/12/24 Analyzed: 06/14/24

Diesel Range Organics (C10-C28)	239	25.0	250		95.4	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike (2424071-MS1) Source: E406104-06 Prepared: 06/12/24 Analyzed: 06/14/24

Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.6	38-132			
Surrogate: n-Nonane	48.9		50.0		97.7	50-200			

Matrix Spike Dup (2424071-MSD1) Source: E406104-06 Prepared: 06/12/24 Analyzed: 06/14/24

Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.0	38-132	2.51	20	
Surrogate: n-Nonane	50.4		50.0		101	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:01:36PM
---	---	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2424063-BLK1)					Prepared: 06/12/24 Analyzed: 06/13/24				
Chloride	ND	20.0							
LCS (2424063-BS1)					Prepared: 06/12/24 Analyzed: 06/13/24				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2424063-MS1)					Source: E406103-03		Prepared: 06/12/24 Analyzed: 06/13/24		
Chloride	274	100	250	ND	110	80-120			
Matrix Spike Dup (2424063-MSD1)					Source: E406103-03		Prepared: 06/12/24 Analyzed: 06/13/24		
Chloride	272	100	250	ND	109	80-120	0.853	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/17/24 16:01

- 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: Dagger State TB					Attention: Ensolum LLC		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo					Address: on file		E4010104		23003-0002							x			
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method										RCRA		
City, State, Zip: Carlsbad NM, 88220					Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM		GDOC TX	State			
Phone: 575-988-0055					Email: agiovengo@ensolum.com											NM	CO		
Email: agiovengo@ensolum.com																x			
Report due by:																UT	AZ		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													Remarks	
9:19	6/7/2024	Soil	1	SW1 -1-5'	1														
9:13	6/7/2024	Soil	1	SW2 -1-5'	2														
10:30	6/7/2024	Soil	1	FS04 - 5'	3														
10:31	6/7/2024	Soil	1	FS05 - 5'	4														
10:32	6/7/2024	Soil	1	FS06 - 5'	5														
11:32	6/7/2024	Soil	1	FS01 - 2.5'	6														
15:03	6/7/2024	Soil	1	FS19 - 1'	7														
14:53	6/7/2024	Soil	1	FS20 - 1'	8														
15:01	6/7/2024	Soil	1	FS22 - 1'	9														
14:59	6/7/2024	Soil	1	FS23 - 1'	10														
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com, iestrella@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
		6/10/24	9:15			6-10-24	1045	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____											
		6-11-24	1645			6-11-24	1700												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4											
		6-11-24	2330			6/12/24	900												
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

Client: Matador Production Company					Bill To		Lab Use Only				TAT				EPA Program				
Project: Dagger State TB					Attention: Ensolum LLC		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Ashley Giovengo					Address: on file		E406104		23003-0002					x					
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method										RCRA		
City, State, Zip: Carlsbad NM, 88220					Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055					Email: agiovengo@ensolum.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										Remarks				
14:55	6/7/2024	Soil	1	FS24 - 1'	11								x						
15:00	6/7/2024	Soil	1	FS26 - 1'	12								x						
11:32	6/7/2024	Soil	1	FS08 - 1'	13								x						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com, iestrella@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
		6/10/24	9:15			6/10/24	1045	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
		6-11-24	1645			6-11-24	1700												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
		6-11-24	2330			6/12/24	900	4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 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: Dagger State TB		Attention: Ensolum LLC	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo		Address: on file	E4010104	23003-0002				x			
Address: 3122 National Parks Hwy		City, State, Zip:	Analysis and Method							RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State
Phone: 575-988-0055		Email: agiovengo@ensolum.com									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	TCEQ TPH	BGDOC NM	GDOC TX	Remarks
9:19	6/7/2024	Soil	1	SW1 -1-5'	1							x		
9:13	6/7/2024	Soil	1	SW2 1-5' - 2-5'	2							x		Per client 6/12/24
10:30	6/7/2024	Soil	1	FS04 - 5'	3							x		
10:31	6/7/2024	Soil	1	FS05 - 5'	4							x		
10:32	6/7/2024	Soil	1	FS06 - 5'	5							x		
11:32	6/7/2024	Soil	1	FS01 - 2.5'	6							x		
15:03	6/7/2024	Soil	1	FS19 - 1'	7							x		
14:53	6/7/2024	Soil	1	FS20 - 1'	8							x		
15:01	6/7/2024	Soil	1	FS22 - 1'	9							x		
14:59	6/7/2024	Soil	1	FS23 - 1'	10							x		

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

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

Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	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)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	6/10/24	9:15	<i>[Signature]</i>	6/10/24	1045	
<i>Michelle Gonzales</i>	6-11-24	1645	<i>[Signature]</i>	6-11-24	1700	
<i>A.M.</i>	6-11-24	2330	<i>[Signature]</i>	6/12/24	900	

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



envirotech

Envirotech Analytical Laboratory

Printed: 6/12/2024 12:16:07PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/12/24 09:00	Work Order ID:	E406104
Phone:	(972) 371-5200	Date Logged In:	06/11/24 15:53	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	06/17/24 17:00 (3 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CouierComments/Resolution

E406104-02 sample jar label did not match COC. Client confirmed that the sample ID is SW2-2-5ft, see green COC for corrections.

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

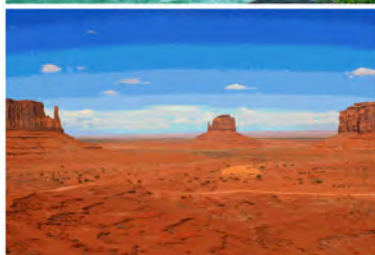
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dagger State TB

Work Order: E406105

Job Number: 23003-0002

Received: 6/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/17/24

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: 6/17/24

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



Project Name: Dagger State TB
Workorder: E406105
Date Received: 6/12/2024 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/12/2024 9:00:00AM, under the Project Name: Dagger State TB.

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

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS07-2.5'	5
FS09-5'	6
FS10-5'	7
FS11-2'	8
FS12-1'	9
FS14-1'	10
FS15-1'	11
FS16-1'	12
FS17-1'	13
FS18-1'	14
SW03-2.5'	15
QC Summary Data	16
QC - Volatile Organic Compounds by EPA8260B	16
QC - Nonhalogenated Organics by EPA 8015D - GRO	17
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	18
QC - Anions by EPA 300.0/9056A	19
Definitions and Notes	20
Chain of Custody etc.	21

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/17/24 16:05
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS07-2.5'	E406105-01A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS09-5'	E406105-02A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS10-5'	E406105-03A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS11-2'	E406105-04A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS12-1'	E406105-05A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS14-1'	E406105-06A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS15-1'	E406105-07A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS16-1'	E406105-08A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS17-1'	E406105-09A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
FS18-1'	E406105-10A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.
SW03-2.5'	E406105-11A	Soil	06/07/24	06/12/24	Glass Jar, 2 oz.

Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/17/2024 4:05:12PM

FS07-2.5'

E406105-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		98.6 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		98.6 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane		110 %	50-200	06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	76.4	20.0	1	06/12/24	06/13/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/17/2024 4:05:12PM

FS09-5'

E406105-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		98.0 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		98.0 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane		104 %	50-200	06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	128	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:05:12PM
---	---	----------------------------------

FS10-5'
E406105-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		99.2 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		99.2 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane		105 %	50-200	06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	49.7	20.0	1	06/12/24	06/13/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/17/2024 4:05:12PM

FS11-2'

E406105-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		98.4 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		98.4 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane		106 %	50-200	06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	107	20.0	1	06/12/24	06/13/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/17/2024 4:05:12PM

FS12-1'

E406105-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		100 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		97.5 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		100 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		97.5 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane		111 %	50-200	06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	26.6	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:05:12PM
---	---	----------------------------------

FS14-1'
E406105-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		97.5 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		103 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		97.5 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane		104 %	50-200	06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	55.3	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:05:12PM
---	---	----------------------------------

FS15-1'
E406105-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		98.1 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		98.1 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane		107 %	50-200	06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	38.4	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:05:12PM
---	---	----------------------------------

FS16-1'
E406105-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		99.2 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		102 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		99.2 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane		109 %	50-200	06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	39.9	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:05:12PM
---	---	----------------------------------

FS17-1'
E406105-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		06/12/24	06/14/24	
Surrogate: Toluene-d8	99.1 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		06/12/24	06/14/24	
Surrogate: Toluene-d8	99.1 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane	110 %	50-200		06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	ND	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:05:12PM
---	---	----------------------------------

FS18-1'

E406105-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene	98.5 %	70-130		06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		06/12/24	06/14/24	
Surrogate: Toluene-d8	97.4 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424060
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene	98.5 %	70-130		06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		06/12/24	06/14/24	
Surrogate: Toluene-d8	97.4 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane	111 %	50-200		06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	97.8	20.0	1	06/12/24	06/13/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:05:12PM
---	---	----------------------------------

SW03-2.5'
E406105-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2424060	
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		97.8 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2424060	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		97.8 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2424072	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane		107 %	50-200	06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2424069	
Chloride	200	20.0	1	06/12/24	06/13/24	



Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/17/2024 4:05:12PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2424060-BLK1) Prepared: 06/12/24 Analyzed: 06/14/24

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	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			

LCS (2424060-BS1) Prepared: 06/12/24 Analyzed: 06/14/24

Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.58	0.0250	2.50		103	70-130			
Toluene	2.49	0.0250	2.50		99.5	70-130			
o-Xylene	2.68	0.0250	2.50		107	70-130			
p,m-Xylene	5.36	0.0500	5.00		107	70-130			
Total Xylenes	8.05	0.0250	7.50		107	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.495		0.500		98.9	70-130			

Matrix Spike (2424060-MS1) Source: E406105-04 Prepared: 06/12/24 Analyzed: 06/14/24

Benzene	2.47	0.0250	2.50	ND	98.8	48-131			
Ethylbenzene	2.47	0.0250	2.50	ND	98.7	45-135			
Toluene	2.37	0.0250	2.50	ND	94.7	48-130			
o-Xylene	2.56	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.14	0.0500	5.00	ND	103	43-135			
Total Xylenes	7.70	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

Matrix Spike Dup (2424060-MSD1) Source: E406105-04 Prepared: 06/12/24 Analyzed: 06/14/24

Benzene	2.73	0.0250	2.50	ND	109	48-131	10.1	23	
Ethylbenzene	2.76	0.0250	2.50	ND	110	45-135	11.0	27	
Toluene	2.65	0.0250	2.50	ND	106	48-130	11.1	24	
o-Xylene	2.90	0.0250	2.50	ND	116	43-135	12.6	27	
p,m-Xylene	5.77	0.0500	5.00	ND	115	43-135	11.6	27	
Total Xylenes	8.67	0.0250	7.50	ND	116	43-135	11.9	27	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/17/2024 4:05:12PM

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

Blank (2424060-BLK1) Prepared: 06/12/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			

LCS (2424060-BS2) Prepared: 06/12/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0		96.1	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

Matrix Spike (2424060-MS2) Source: E406105-04 Prepared: 06/12/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.6	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike Dup (2424060-MSD2) Source: E406105-04 Prepared: 06/12/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.3	70-130	3.93	20	
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/17/2024 4:05:12PM

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

Blank (2424072-BLK1) Prepared: 06/12/24 Analyzed: 06/16/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.6		50.0		111	50-200			

LCS (2424072-BS1) Prepared: 06/12/24 Analyzed: 06/16/24

Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			

Matrix Spike (2424072-MS1) Source: E406105-09 Prepared: 06/12/24 Analyzed: 06/16/24

Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			

Matrix Spike Dup (2424072-MSD1) Source: E406105-09 Prepared: 06/12/24 Analyzed: 06/16/24

Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132	0.178	20	
Surrogate: n-Nonane	55.7		50.0		111	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:05:12PM
---	---	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2424069-BLK1)					Prepared: 06/12/24 Analyzed: 06/13/24				
Chloride	ND	20.0							
LCS (2424069-BS1)					Prepared: 06/12/24 Analyzed: 06/13/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2424069-MS1)					Source: E406105-03		Prepared: 06/12/24 Analyzed: 06/13/24		
Chloride	300	20.0	250	49.7	100	80-120			
Matrix Spike Dup (2424069-MSD1)					Source: E406105-03		Prepared: 06/12/24 Analyzed: 06/13/24		
Chloride	300	20.0	250	49.7	100	80-120	0.0670	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/17/24 16:05

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

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

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



Chain of Custody

Client Information					Invoice Information			Lab Use Only				TAT				State				
Client: Matador Production Company					Company: Ensolum LLC			Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX	
Project: Dagger State TB					Address: 3122 National Parks Hwy			E 400105		23003-0002					X	X				
Project Manager: Ashley Giovengo					City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy					Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220					Email: agiovengo@ensolum.com															
Phone: 575-988-0055					Miscellaneous:															
Email: agiovengo@ensolum.com																				
Sample Information					Analysis and Method										EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	Y or N	
10:30	6/7/2024	S	1	FS07 - 2.5'		1						X								
10:33	6/7/2024	S	1	FS09 - 5'		2						X								
10:32	6/7/2024	S	1	FS10 - 5'		3						X								
10:36	6/7/2024	S	1	FS11 - 2'		4						X								
14:42	6/7/2024	S	1	FS12 - 1'		5						X								
14:54	6/7/2024	S	1	FS14 - 1'		6						X								
14:57	6/7/2024	S	1	FS15 - 1'		7						X								
14:59	6/7/2024	S	1	FS16 - 1'		8						X								
15:01	6/7/2024	S	1	FS17 - 1'		9						X								
15:03	6/7/2024	S	1	FS18 - 1'		10						X								
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by: Chad Hamilton																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



envirotech

Page 2 of 2



envirotech

Envirotech Analytical Laboratory

Printed: 6/12/2024 11:57:53AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/12/24 09:00	Work Order ID:	E406105
Phone:	(972) 371-5200	Date Logged In:	06/11/24 15:56	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	06/18/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Courier**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.

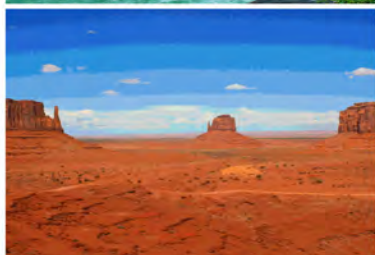
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dagger State TB

Work Order: E406106

Job Number: 23003-0002

Received: 6/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/17/24

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: 6/17/24

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



Project Name: Dagger State TB
Workorder: E406106
Date Received: 6/12/2024 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/12/2024 9:00:00AM, under the Project Name: Dagger State TB.

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

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS25-1.5'	5
FS27-1.5'	6
FS28-1.5'	7
QC Summary Data	8
QC - Volatile Organic Compounds by EPA 8260B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/17/24 16:06

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS25-1.5'	E406106-01A	Soil	06/10/24	06/12/24	Glass Jar, 2 oz.
FS27-1.5'	E406106-02A	Soil	06/10/24	06/12/24	Glass Jar, 2 oz.
FS28-1.5'	E406106-03A	Soil	06/10/24	06/12/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/17/2024 4:06:02PM

FS25-1.5'

E406106-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2424058
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		99.3 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		100 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2424058
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene		99.3 %	70-130	06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	06/12/24	06/14/24	
Surrogate: Toluene-d8		100 %	70-130	06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane		111 %	50-200	06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	31.5	20.0	1	06/12/24	06/14/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/17/2024 4:06:02PM

FS27-1.5'

E406106-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2424058
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene	96.8 %	70-130		06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		06/12/24	06/14/24	
Surrogate: Toluene-d8	101 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2424058
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene	96.8 %	70-130		06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		06/12/24	06/14/24	
Surrogate: Toluene-d8	101 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane	112 %	50-200		06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	36.0	20.0	1	06/12/24	06/14/24	



Sample Data

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

Project Name: Dagger State TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
6/17/2024 4:06:02PM

FS28-1.5'

E406106-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2424058
Benzene	ND	0.0250	1	06/12/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/12/24	06/14/24	
Toluene	ND	0.0250	1	06/12/24	06/14/24	
o-Xylene	ND	0.0250	1	06/12/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/12/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/12/24	06/14/24	
Surrogate: Toluene-d8	100 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2424058
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/12/24	06/14/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		06/12/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		06/12/24	06/14/24	
Surrogate: Toluene-d8	100 %	70-130		06/12/24	06/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424072
Diesel Range Organics (C10-C28)	ND	25.0	1	06/12/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/12/24	06/16/24	
Surrogate: n-Nonane	111 %	50-200		06/12/24	06/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2424069
Chloride	ND	20.0	1	06/12/24	06/14/24	



Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/17/2024 4:06:02PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2424058-BLK1)

Prepared: 06/12/24 Analyzed: 06/14/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.514		0.500		103	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

LCS (2424058-BS1)

Prepared: 06/12/24 Analyzed: 06/14/24

Benzene	2.36	0.0250	2.50		94.5	70-130			
Ethylbenzene	2.46	0.0250	2.50		98.2	70-130			
Toluene	2.34	0.0250	2.50		93.7	70-130			
o-Xylene	2.48	0.0250	2.50		99.4	70-130			
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130			
Total Xylenes	7.38	0.0250	7.50		98.4	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2424058-MS1)

Source: E406108-05

Prepared: 06/12/24 Analyzed: 06/14/24

Benzene	2.35	0.0250	2.50	ND	94.0	48-131			
Ethylbenzene	2.47	0.0250	2.50	ND	99.0	45-135			
Toluene	2.36	0.0250	2.50	ND	94.3	48-130			
o-Xylene	2.48	0.0250	2.50	ND	99.1	43-135			
p,m-Xylene	4.85	0.0500	5.00	ND	97.0	43-135			
Total Xylenes	7.33	0.0250	7.50	ND	97.7	43-135			
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

Matrix Spike Dup (2424058-MSD1)

Source: E406108-05

Prepared: 06/12/24 Analyzed: 06/14/24

Benzene	2.41	0.0250	2.50	ND	96.4	48-131	2.48	23	
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135	3.79	27	
Toluene	2.45	0.0250	2.50	ND	97.8	48-130	3.71	24	
o-Xylene	2.59	0.0250	2.50	ND	104	43-135	4.56	27	
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135	4.24	27	
Total Xylenes	7.65	0.0250	7.50	ND	102	43-135	4.35	27	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/17/2024 4:06:02PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2424058-BLK1)

Prepared: 06/12/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.514		0.500		103	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

LCS (2424058-BS2)

Prepared: 06/12/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0		94.7	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Matrix Spike (2424058-MS2)

Source: E406108-05

Prepared: 06/12/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.4	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike Dup (2424058-MSD2)

Source: E406108-05

Prepared: 06/12/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.2	70-130	2.90	20	
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/17/2024 4:06:02PM

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

Blank (2424072-BLK1)					Prepared: 06/12/24 Analyzed: 06/16/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.6		50.0		111	50-200			

LCS (2424072-BS1)					Prepared: 06/12/24 Analyzed: 06/16/24				
Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: n-Nonane	54.4		50.0		109	50-200			

Matrix Spike (2424072-MS1)					Source: E406105-09		Prepared: 06/12/24 Analyzed: 06/16/24		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			

Matrix Spike Dup (2424072-MSD1)					Source: E406105-09		Prepared: 06/12/24 Analyzed: 06/16/24		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132	0.178	20	
Surrogate: n-Nonane	55.7		50.0		111	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/17/2024 4:06:02PM
---	---	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2424069-BLK1)					Prepared: 06/12/24 Analyzed: 06/13/24				
Chloride	ND	20.0							
LCS (2424069-BS1)					Prepared: 06/12/24 Analyzed: 06/13/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2424069-MS1)					Source: E406105-03		Prepared: 06/12/24 Analyzed: 06/13/24		
Chloride	300	20.0	250	49.7	100	80-120			
Matrix Spike Dup (2424069-MSD1)					Source: E406105-03		Prepared: 06/12/24 Analyzed: 06/13/24		
Chloride	300	20.0	250	49.7	100	80-120	0.0670	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/17/24 16:06

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

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

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



Page 1 of 0

envirotech

Envirotech Analytical Laboratory

Printed: 6/12/2024 11:58:01AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/12/24 09:00	Work Order ID:	E406106
Phone:	(972) 371-5200	Date Logged In:	06/11/24 15:59	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	06/18/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Courier**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.

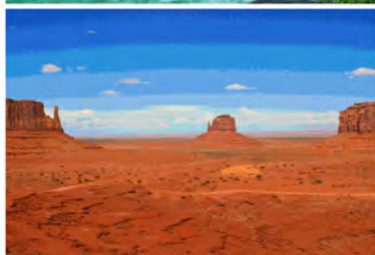
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Dagger State TB

Work Order: E406224

Job Number: 23003-0002

Received: 6/24/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/28/24

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: 6/28/24

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



Project Name: Dagger State TB
Workorder: E406224
Date Received: 6/24/2024 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/24/2024 7:30:00AM, under the Project Name: Dagger State TB.

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

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS30-0'	5
FS31-0'	6
FS32-0'	7
FS87-0'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 06/28/24 11:25
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS30-0'	E406224-01A	Soil	06/21/24	06/24/24	Glass Jar, 2 oz.
FS31-0'	E406224-02A	Soil	06/21/24	06/24/24	Glass Jar, 2 oz.
FS32-0'	E406224-03A	Soil	06/21/24	06/24/24	Glass Jar, 2 oz.
FS87-0'	E406224-04A	Soil	06/21/24	06/24/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/28/2024 11:25:30AM
---	---	-----------------------------------

FS30-0'

E406224-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2426016	
Benzene	ND	0.0250	1	06/25/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/25/24	06/27/24	
Toluene	ND	0.0250	1	06/25/24	06/27/24	
o-Xylene	ND	0.0250	1	06/25/24	06/27/24	
p,m-Xylene	ND	0.0500	1	06/25/24	06/27/24	
Total Xylenes	ND	0.0250	1	06/25/24	06/27/24	
Surrogate: 4-Bromochlorobenzene-PID	90.0 %	70-130		06/25/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2426016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/24	06/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		06/25/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2426019	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/24	06/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/25/24	06/26/24	
Surrogate: n-Nonane	101 %	50-200		06/25/24	06/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2426023	
Chloride	264	20.0	1	06/25/24	06/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/28/2024 11:25:30AM
---	---	-----------------------------------

FS31-0'

E406224-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2426016	
Benzene	ND	0.0250	1	06/25/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/25/24	06/27/24	
Toluene	ND	0.0250	1	06/25/24	06/27/24	
o-Xylene	ND	0.0250	1	06/25/24	06/27/24	
p,m-Xylene	ND	0.0500	1	06/25/24	06/27/24	
Total Xylenes	ND	0.0250	1	06/25/24	06/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		06/25/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2426016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/24	06/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		06/25/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2426019	
Diesel Range Organics (C10-C28)	306	25.0	1	06/25/24	06/26/24	
Oil Range Organics (C28-C36)	118	50.0	1	06/25/24	06/26/24	
<i>Surrogate: n-Nonane</i>						
	99.9 %	50-200		06/25/24	06/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2426023	
Chloride	589	20.0	1	06/25/24	06/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/28/2024 11:25:30AM
---	---	-----------------------------------

FS32-0'

E406224-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2426016	
Benzene	ND	0.0250	1	06/25/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/25/24	06/27/24	
Toluene	ND	0.0250	1	06/25/24	06/27/24	
o-Xylene	ND	0.0250	1	06/25/24	06/27/24	
p,m-Xylene	ND	0.0500	1	06/25/24	06/27/24	
Total Xylenes	ND	0.0250	1	06/25/24	06/27/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		06/25/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2426016	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/24	06/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		06/25/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2426019	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/25/24	06/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/25/24	06/26/24	
Surrogate: n-Nonane	95.7 %	50-200		06/25/24	06/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2426023	
Chloride	1100	20.0	1	06/25/24	06/26/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/28/2024 11:25:30AM
---	---	-----------------------------------

FS87-0'

E406224-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2426016
Benzene	ND	0.0250	1	06/25/24	06/27/24	
Ethylbenzene	ND	0.0250	1	06/25/24	06/27/24	
Toluene	ND	0.0250	1	06/25/24	06/27/24	
o-Xylene	0.0436	0.0250	1	06/25/24	06/27/24	
p,m-Xylene	0.162	0.0500	1	06/25/24	06/27/24	
Total Xylenes	0.206	0.0250	1	06/25/24	06/27/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	06/25/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2426016
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/25/24	06/27/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	06/25/24	06/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2426019
Diesel Range Organics (C10-C28)	2740	25.0	1	06/25/24	06/26/24	
Oil Range Organics (C28-C36)	709	50.0	1	06/25/24	06/26/24	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	06/25/24	06/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2426023
Chloride	1230	20.0	1	06/25/24	06/26/24	



Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/28/2024 11:25:30AM

Volatile Organics by EPA 8021B

Analyst: BA

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

Blank (2426016-BLK1)Prepared: 06/25/24 Analyzed: 06/27/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.7	70-130			

LCS (2426016-BS1)Prepared: 06/25/24 Analyzed: 06/27/24

Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.78	0.0250	5.00		95.6	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
o-Xylene	4.88	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.82	0.0500	10.0		98.2	70-130			
Total Xylenes	14.7	0.0250	15.0		98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.3	70-130			

Matrix Spike (2426016-MS1)Source: E406219-02Prepared: 06/25/24 Analyzed: 06/27/24

Benzene	5.12	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.80	0.0250	5.00	ND	96.1	61-133			
Toluene	5.03	0.0250	5.00	ND	101	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.3	63-131			
p,m-Xylene	9.88	0.0500	10.0	ND	98.8	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2426016-MSD1)Source: E406219-02Prepared: 06/25/24 Analyzed: 06/27/24

Benzene	5.04	0.0250	5.00	ND	101	54-133	1.61	20	
Ethylbenzene	4.74	0.0250	5.00	ND	94.7	61-133	1.43	20	
Toluene	4.96	0.0250	5.00	ND	99.1	61-130	1.51	20	
o-Xylene	4.85	0.0250	5.00	ND	96.9	63-131	1.45	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	1.40	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131	1.42	20	
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/28/2024 11:25:30AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2426016-BLK1) Prepared: 06/25/24 Analyzed: 06/27/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.34		8.00		104	70-130			

LCS (2426016-BS2) Prepared: 06/25/24 Analyzed: 06/27/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.49		8.00		106	70-130			

Matrix Spike (2426016-MS2) Source: E406219-02 Prepared: 06/25/24 Analyzed: 06/27/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		106	70-130			

Matrix Spike Dup (2426016-MSD2) Source: E406219-02 Prepared: 06/25/24 Analyzed: 06/27/24

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.0	70-130	4.77	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.50		8.00		106	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Dagger State TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/28/2024 11:25:30AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2426019-BLK1) Prepared: 06/25/24 Analyzed: 06/25/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.0		50.0		95.9	50-200			

LCS (2426019-BS1) Prepared: 06/25/24 Analyzed: 06/25/24

Diesel Range Organics (C10-C28)	291	25.0	250		116	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike (2426019-MS1) Source: E406220-01 Prepared: 06/25/24 Analyzed: 06/25/24

Diesel Range Organics (C10-C28)	321	25.0	250	ND	129	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike Dup (2426019-MSD1) Source: E406220-01 Prepared: 06/25/24 Analyzed: 06/25/24

Diesel Range Organics (C10-C28)	309	25.0	250	ND	123	38-132	4.06	20	
Surrogate: n-Nonane	53.1		50.0		106	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dagger State TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/28/2024 11:25:30AM
---	---	---------------------------------------

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2426023-BLK1)					Prepared: 06/25/24 Analyzed: 06/25/24				
Chloride	ND	20.0							
LCS (2426023-BS1)					Prepared: 06/25/24 Analyzed: 06/25/24				
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2426023-MS1)					Source: E406220-02		Prepared: 06/25/24 Analyzed: 06/25/24		
Chloride	298	200	250	ND	119	80-120			
Matrix Spike Dup (2426023-MSD1)					Source: E406220-02		Prepared: 06/25/24 Analyzed: 06/25/24		
Chloride	306	200	250	ND	122	80-120	2.64	20	M6

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Dagger State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/28/24 11:25

- M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Page 14 of 15



envirotech

Envirotech Analytical Laboratory

Printed: 6/26/2024 8:30:54AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/24/24 07:30	Work Order ID:	E406224
Phone:	(972) 371-5200	Date Logged In:	06/24/24 16:52	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	06/28/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX F

NMOCD Correspondence

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

QUESTIONS

Action 305598

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 305598
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401854801
Incident Name	NAPP2401854801 DAGGER STATE TB @ 0
Incident Type	Oil Release
Incident Status	Notification Accepted

Location of Release Source	
Site Name	Dagger State TB
Date Release Discovered	01/17/2024
Surface Owner	State

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	8,750
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	01/26/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	n/a
Please provide any information necessary for navigation to liner inspection site	32.4493° N, -103.61629° W

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 305598

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 305598
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	1/19/2024

From: [Velez, Nelson, EMNRD](#)
To: [Ashley Giovengo](#)
Cc: [clinton.talley@matadorresources.com](#); [jason.touchet@matadorresources.com](#); [Cole Burton](#); [Chad Hamilton](#); [Israel Estrella](#)
Subject: Re: [EXTERNAL] Extension Request - Matador Production Company - Dagger State TB - Incident Number nAPP2401854801
Date: Tuesday, April 9, 2024 9:40:53 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[Outlook-ffxsup5.png](#)

[**EXTERNAL EMAIL**]

Good morning Ashley,

Thank you for the inquiry. Your 90-day time extension request is approved. Remediation Due date has been updated to July 15, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Tuesday, April 9, 2024 9:26 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; clinton.talley@matadorresources.com <clinton.talley@matadorresources.com>; Jason Touchet <jason.touchet@matadorresources.com>

Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Israel Estrella <iestrella@ensolum.com>

Subject: [EXTERNAL] Extension Request - Matador Production Company - Dagger State TB - Incident Number nAPP2401854801

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

All,

Matador Production Company (Matador) is requesting an extension for the current deadline of April 15, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Dagger State TB (Incident Number nAPP2401854801). The release occurred on January 17, 2024, due to a gasket on a heater treater; Approximately 40 barrels (bbls) of crude oil and 10 bbls of produced water was released. The release occurred inside lined containment and a 33, 756 square foot area off-pad was misted by crude oil. A liner inspection was completed on January 31, 2024, and the liner was found to have remained intact. Lateral and vertical delineation sampling to the strictest closure criteria per NMOCD Table I has been completed and an archaeological survey of the off-pad spill area has been in accordance with the CPP Rule. In order to complete remediation and confirmation sampling at the Site, Matador will provide Merchant Cattle Company with a 15-day notice for planned remediation activities and complete remediation and final confirmation sampling within the next 90-days. Matador will submit a remediation work plan or closure report, following remediation efforts and confirmation sampling. Matador respectfully requests an extension until July 15, 2024.

Matador will upload this extension request via NMOCD web portal if the division can please verify the location where it needs to be uploaded.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f t

"Your authenticity is your superpower." – Unknown

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

QUESTIONS

Action 308467

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 308467
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401854801
Incident Name	NAPP2401854801 DAGGER STATE TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Dagger State TB
Date Release Discovered	01/17/2024
Surface Owner	State

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	8,750
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	01/31/2024
Time liner inspection will commence	09:30 AM
Please provide any information necessary for observers to liner inspection	N/A
Please provide any information necessary for navigation to liner inspection site	32.4493, -103.61629

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 308467

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 308467
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
c_talley	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	1/26/2024

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

QUESTIONS

Action 348260

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 348260
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401854801
Incident Name	NAPP2401854801 DAGGER STATE TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	DAGGER STATE TB
Date Release Discovered	01/17/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	34,114
What is the estimated number of samples that will be gathered	176
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/30/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.4493 -103.61629

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 348260

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 348260
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/28/2024

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

QUESTIONS

Action 348297

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 348297
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401854801
Incident Name	NAPP2401854801 DAGGER STATE TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	DAGGER STATE TB
Date Release Discovered	01/17/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	34,114
What is the estimated number of samples that will be gathered	176
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/31/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.4493,-103.61629

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 348297

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 348297
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/28/2024

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

QUESTIONS

Action 348300

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 348300
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401854801
Incident Name	NAPP2401854801 DAGGER STATE TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	DAGGER STATE TB
Date Release Discovered	01/17/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	34,114
What is the estimated number of samples that will be gathered	176
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/03/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.4493,-103.61629

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 348300

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 348300
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/28/2024

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

QUESTIONS

Action 349644

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 349644
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401854801
Incident Name	NAPP2401854801 DAGGER STATE TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	DAGGER STATE TB
Date Release Discovered	01/17/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	34,114
What is the estimated number of samples that will be gathered	176
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/04/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	L-30-21S-33E (32.4493, -103.61629)

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 349644

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 349644
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
c_talley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/31/2024

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

QUESTIONS

Action 349645

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 349645
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401854801
Incident Name	NAPP2401854801 DAGGER STATE TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	DAGGER STATE TB
Date Release Discovered	01/17/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	34,114
What is the estimated number of samples that will be gathered	176
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/05/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	L-30-21S-33E (32.4493, -103.61629)

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 349645

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 349645
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
c_talley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/31/2024

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

QUESTIONS

Action 349647

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 349647
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401854801
Incident Name	NAPP2401854801 DAGGER STATE TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	DAGGER STATE TB
Date Release Discovered	01/17/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	34,114
What is the estimated number of samples that will be gathered	176
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/06/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	L-30-21S-33E (32.4493, -103.61629)

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 349647

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 349647
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
c_talley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/31/2024

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

QUESTIONS

Action 349648

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 349648
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401854801
Incident Name	NAPP2401854801 DAGGER STATE TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	DAGGER STATE TB
Date Release Discovered	01/17/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	34,114
What is the estimated number of samples that will be gathered	176
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/07/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	L-30-21S-33E (32.4493, -103.61629)

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 349648

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 349648
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
c_talley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/31/2024

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

QUESTIONS

Action 352396

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 352396
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401854801
Incident Name	NAPP2401854801 DAGGER STATE TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	DAGGER STATE TB
Date Release Discovered	01/17/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	34,114
What is the estimated number of samples that will be gathered	176
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/10/2024
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.4493,-103.61629

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 352396

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 352396
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	6/10/2024

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

QUESTIONS

Action 355931

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 355931
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401854801
Incident Name	NAPP2401854801 DAGGER STATE TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	DAGGER STATE TB
Date Release Discovered	01/17/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,523
What is the estimated number of samples that will be gathered	4
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/21/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.4493,-103.61629

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 355931

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 355931
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	6/19/2024

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

QUESTIONS

Action 364916

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364916
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401854801
Incident Name	NAPP2401854801 DAGGER STATE TB @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DAGGER STATE TB
Date Release Discovered	01/17/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Gasket Crude Oil Released: 40 BBL Recovered: 20 BBL Lost: 20 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Gasket Produced Water Released: 10 BBL Recovered: 10 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Released a total. 50 BBIs, Recover a total of 30 BBLS, 20BBIs.loss

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

QUESTIONS, Page 2

Action 364916

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	364916
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/17/2024
--	--

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

QUESTIONS, Page 3

Action 364916

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364916
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	5430
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	20740
GRO+DRO	(EPA SW-846 Method 8015M)	12400
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	05/28/2024
On what date will (or did) the final sampling or liner inspection occur	06/21/2024
On what date will (or was) the remediation complete(d)	06/21/2024
What is the estimated surface area (in square feet) that will be reclaimed	1175
What is the estimated volume (in cubic yards) that will be reclaimed	87
What is the estimated surface area (in square feet) that will be remediated	13909
What is the estimated volume (in cubic yards) that will be remediated	954

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

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

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

QUESTIONS, Page 4

Action 364916

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	364916
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	R360
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/17/2024
--	--

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

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

QUESTIONS, Page 5

Action 364916

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	364916
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Deferral Requests Only**

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

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Electrical poles
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1175
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	87
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	Dagger State Northwest Facility Flare Stack [fAPP2312234124]
Enter the well API (30-) on which this deferral should be granted	30-025-48897 DAGGER STATE COM #512H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/17/2024

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

QUESTIONS, Page 6

Action 364916

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364916
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	355931
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/21/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	1523

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

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 364916

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364916
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	8/26/2024