



November 4, 2024

New Mexico Oil Conservation Division

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

**Re: Deferral Request
Grevey Com TB
Incident Number nAPP2420059937
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 Grevey Com TB (Site). The purpose of the excavation and soil sampling activities was to address impacts to soil following a release of produced water onto the well pad. 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 nAPP2420059937 until the Site is reconstructed and/or the pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit L, Section 20, Township 26 South, Range 35 East, in Lea County, New Mexico (32.033410°, -103.396000°) and is associated with oil and gas exploration and production operations on Private Land.

On July 18, 2024, human error caused the tanks to overflow, and high winds sent fluid into the pasture. As a result, approximately 529 barrels (bbls) of produced water was released into the secondary lined containment, well pad, and the pasture southwest of the pad; 525 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 July 19, 2024, and the release was assigned Incident Number nAPP2420059937.

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 C-04791 POD1, with a depth to water measurement of 55 feet below

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ground surface (bgs). The well is located 1.18 miles west of the Site. All wells used 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 2,831 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is 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 (medium 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

SITE ASSESSMENT ACTIVITIES

On July 18, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

DELINEATION AND LINER INTEGRITY INSPECTION

On July 26, 2024, Ensolum personnel competent in conducting liner inspections arrived onsite to visually inspect the integrity of the containment liner. Prior to conducting the inspection, NMOCD was provided with a 48-hour liner inspection notification via web portal on July 24, 2024. The liner was found to be insufficient during the inspection and as such, three boreholes, (BH01 through BH03), were advanced in the damaged liner via hand auger. The boreholes were advanced to a terminal depth of 1-foot bgs. Photographs taken during the liner inspection are included in Appendix B. The delineation soil sample locations are depicted on Figure 2.

On July 30, 2024, Ensolum personnel were onsite to conduct lateral and vertical delineation sampling activities. Four delineation soil samples (SS01 through SS04) were collected from around the release extent at ground surface to assess the lateral extent of the release. Seven boreholes (BH04 through BH010) were advanced via hand auger within the release extent to assess the vertical extent of release. Boreholes BH01 through BH04, BH06, BH08, and BH09 were advanced to a depth of 1-foot bgs, boreholes BH05 and BH07 were advanced to a depth of 4 feet bgs, and BH10 was collected at ground surface level. Borehole BH11 was advanced via hand auger to a depth of 6 feet bgs during excavation activities to determine the depth of the northeast deferral area. Discrete delineation soil samples were collected from each borehole and field screened for chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

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Lateral delineation soil samples (SS01 through SS04) and discrete delineation soil samples from boreholes (BH01 through BH11) were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chain-of-custody procedures to Envirotech Analysis Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Beginning on September 30, 2024, Ensolum personnel oversaw the excavation of impacted and waste-containing soil from the release area. The excavation of the release area was completed with a backhoe, hydro-vac, and hand tools. The excavation occurred on the well pad on the southwest side of the lined secondary containment, around production equipment, and into the nearby pasture, removing soil where applicable as to not degrade the structural integrity of the soil surrounding production equipment. To direct excavation activities, Ensolum personnel field screened soil samples for chloride and TPH utilizing Mohr method titration and a PetroFLAG® TPH Analyzer, respectively.

Following the removal of impacted and waste-containing soil, Ensolum personnel collected 5-point composite soil samples representing at least 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS47) were collected from the floor of the excavation ranging from 0.5 to 3.5 feet bgs. Composite soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 3 feet bgs to assess the root zone for future revegetation purposes. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

A hydro-vac was used to remove impacted soil in the confirmation sample areas FS35 and FS36 and a crew was used to hand dig confirmation sample areas FS37, FS38, FS41 through FS43, and FS47 due to the proximity of the sample areas to active pipelines and electrical conduit. The final excavation extent measured approximately 7,199 square feet. A total of approximately 180 cubic yards of impacted and waste-containing soil was removed during the excavation activities. Impacted and waste-containing soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

All lateral delineation soil samples were in compliance with the Closure Criteria and reclamation requirement at ground surface. Laboratory analytical results for delineation soil samples collected from borehole BH10 was in compliance with the Closure Criteria and reclamation requirement. Surface samples collected from boreholes BH01 through BH09 and BH11 contained TPH and/or chloride concentrations exceeding the reclamation requirement. The subsurface soil samples collected from the borings were in compliance with the Closure Criteria and reclamation requirements.

Laboratory analytical results for excavation sidewall samples SW01 through SW04 and excavation floor samples FS01 through FS36, FS39, FS40 and FS42 through FS46 indicated all COC concentrations were compliant with the Site Closure Criteria and in compliance with the reclamation requirement. Confirmation floor samples FS38, FS41, and FS47 exceeded Site closure criteria for TPH and floor sample FS37 exceeded Site closure criteria for TPH and BTEX. Excavation floor confirmation samples

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FS01 through FS26 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 D. All sampling notifications to NMOCD and additional correspondence is included in Appendix E.

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 4,318 square feet, and assuming a depth of up to 6 feet bgs under the transfer pumps on the east side of the lined containment, 4 feet bgs under the piping and equipment on the south side of secondary lined containment and 3 feet on the west side, and 1-foot bgs beneath the secondary lined containment based on the analytical results from surrounding confirmation samples and delineation boreholes (BH01, BH02 BH07 and BH11), a total of approximately 166 cubic yards of impacted soil remains in place. Soil in the vicinity of floor confirmation soil samples FS37, FS38, FS41, and FS47 are included in this deferment request due to the proximity of production equipment 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.

Impacted soil is limited to the area beneath active production equipment, where remediation would require a major facility deconstruction. The release extent has been laterally delineated by delineation soil samples SS01 through SS04, BH10 at 0 feet bgs, and sidewall soil sample SW02 at 0-0.5 feet bgs and vertically delineated by borehole samples BH01 through BH03 at 1-foot bgs, BH07 at 4 feet bgs, and BH11 at 6 feet bgs. Vertical delineation inside confirmation sample areas FS37 and FS38 could not be advanced due to process piping, catwalk stairs and underground electrical lines, however, the depth of contamination in these areas can be estimated by using the nearby floor sample FS36.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be 55 feet bgs, and all accessible impacted soil was removed to the Maximum Extent Practicable (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 nAPP2420059937 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: Jason Touchet, Matador Production Company

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Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Areas 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	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Correspondence

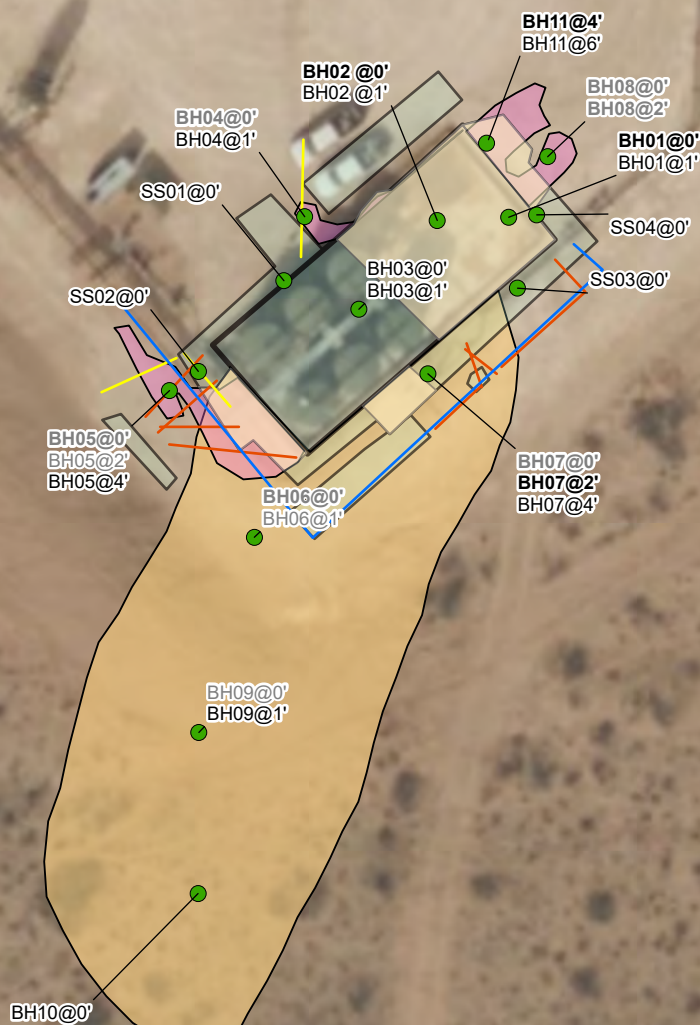


FIGURES

FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- Overspray
- Pooled Zone
- Deferral Area
- Liner Containment Area
- Production Equipment

**Notes:**

Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Grey text indicate soil sample was removed during excavation activities.

0 12.5 25 50 75 100
 Feet

Sources: Environmental Systems Research Institute (ESRI)

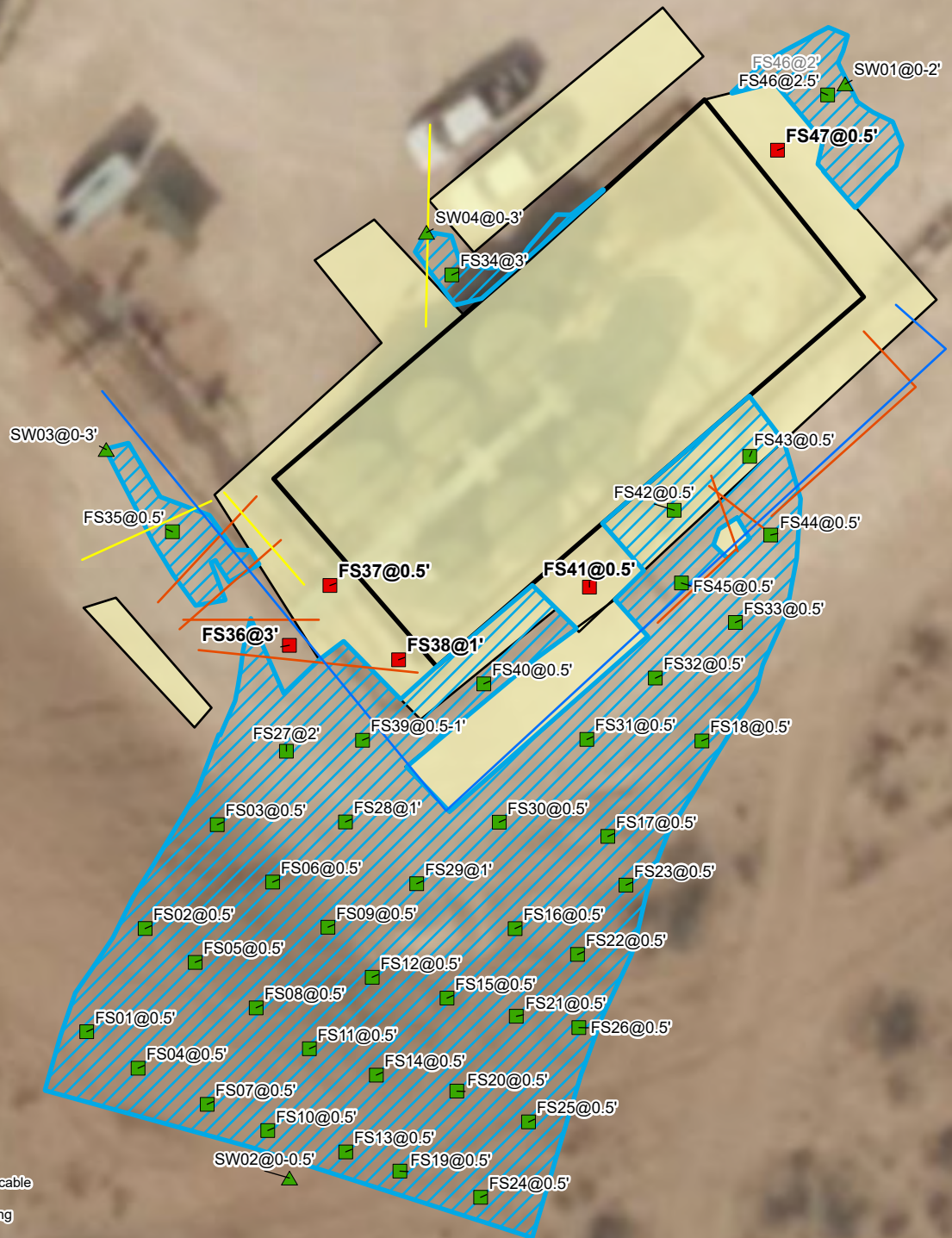
**Delineation Soil Sample Locations**

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FIGURE**2**

Legend

- Confirmation Floor Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- Confirmation Floor Sample in Compliance with Closure Criteria
- ▬ Liner Containment Area
- Production Equipment
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- ▨ Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Grey text indicate soil sample was removed during excavation activities.

0 5 10 20 30 40
 Feet

Sources: Environmental Systems Research Institute (ESRI)

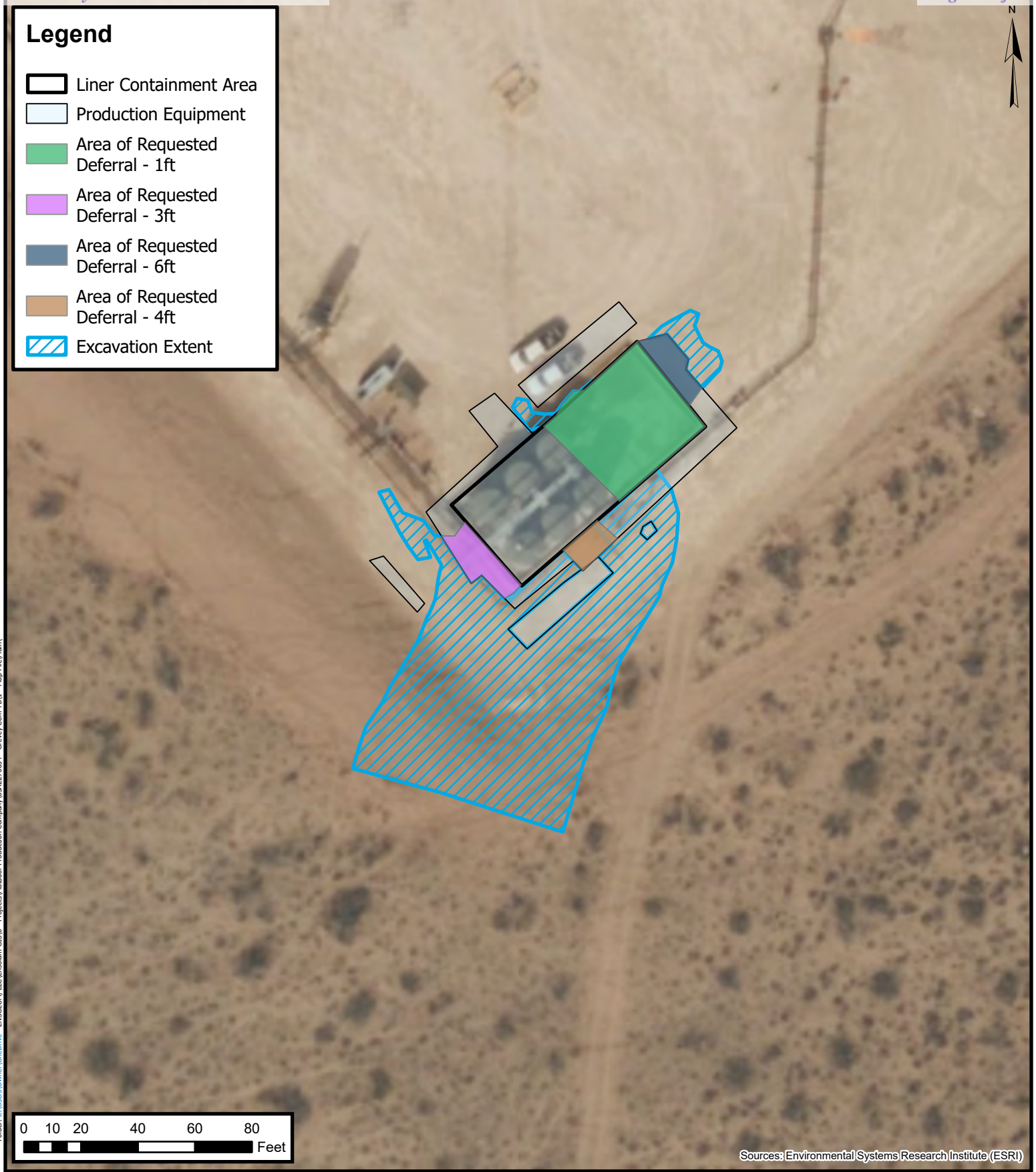
Confirmation Soil Sample Locations

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FIGURE

3





Areas of Requested Deferral

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FIGURE

4





TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Grevey Com TB
 Matador Production Company
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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	7/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	362
SS02	7/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	70.4
SS03	7/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
SS04	7/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	112
BH01	7/26/2024	0	<0.0250	4.973	30.1	8,690	2,950	8,720.10	11,670.1	2,380
BH01	7/26/2024	1	<0.0250	<0.0250	<20.0	63.2	<50.0	<25.0	63.2	32.8
BH02	7/26/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	3,920
BH02	7/26/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	40.9
BH03	7/26/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	482
BH03	7/26/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
BH04	7/30/2024	0	3.61	25.75	261	37,200	11,000	11,261	22,261	136
BH04	7/30/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	212
BH05	7/30/2024	0	2.31	22.679	252	29,700	8,740	29,952	38,692	<20.0
BH05	7/30/2024	2	<0.0250	0.149	<20.0	670	221	670	891	939
BH05	7/30/2024	4	<0.0250	<0.0500	<20.0	73.6	<50.0	73.6	73.6	71.7
BH06	7/30/2024	0	<0.0250	0.0806	<20.0	596	240	596	836	17,400
BH06	7/30/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	267
BH07	7/30/2024	0	2.89	21.79	242	19,600	5,910	19,842	25,752	<20.0
BH07	7/30/2024	2	<0.0250	<0.0500	<20.0	167	105	167	272	123
BH07	7/30/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
BH08	7/30/2024	0	5.98	56.54	416	29,200	8,040	29,616	37,656	428
BH08	7/30/2024	2	<0.0250	<0.0500	<20.0	523	199	523	722	31.6



TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Grevey Com 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										
BH09	7/30/2024	0	<0.0250	<0.0500	<20.0	313	197	313	510	<20.0
BH09	7/30/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
BH10	7/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
BH11	10/4/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	1,540
BH11	10/4/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	56.8

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
 Grevey Com 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	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS02	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS03	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS04	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS05	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS06	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS07	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS08	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS09	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS10	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS11	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS12	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS13	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS14	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS15	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS16	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	25.4
FS17	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS18	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS19	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS20	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS21	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS22	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	25.7
FS23	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	46.1
FS24	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS25	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS26	10/1/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS27	10/4/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	190
FS28	10/2/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	<20.0
FS29	10/2/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	41.8
FS30	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	68.1
FS31	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	20.4



TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
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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										
FS32	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	250
FS33	10/2/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	511
FS34	10/4/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	211
FS35	10/3/2024	3.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
FS36	10/4/2024	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	96.7
FS37	10/4/2024	0.5	8.50	105.26	907	9,670	2,980	10,577	13,557	2,160
FS38	10/4/2024	2	1.33	14.222	177	1,270	377	1,447	1,824	752
FS39	10/4/2024	0.5-1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	146
FS40	10/4/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	208
FS41	10/4/2024	0.5	0.266	1.496	95.5	1,490	594	1,585.5	2,180	982
FS42	10/4/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	64.2
FS43	10/3/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	45.5
FS44	10/3/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	32.0
FS45	10/3/2024	0.5	<0.0250	<0.0500	<20.0	58.3	<50.0	58.3	58.3	24.0
FS46	10/3/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	799
FS46	10/18/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	68.4
FS47	10/4/2024	0.5	0.0835	1.019	38.4	1,710	596	1,748.4	2,344	4,780

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
 Grevey Com 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	10/3/2024	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	269
SW02	10/4/2024	0-0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
SW03	10/4/2024	0-3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	27.2
SW04	10/4/2024	0.3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	154

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 & Record

OSE DTI FEB 26 2024 PM 2:04



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C04791POD1		WELL TAG ID NO. C-4791		OSE FILE NO(S). C04791			
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 205 E Bender Road#150				CITY Hobbs	STATE NM	ZIP 88240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 2	SECONDS 11.0508 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	24	56.3724 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1833		NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources		
	DRILLING STARTED 2-8-24		DRILLING ENDED 2-8-24		DEPTH OF COMPLETED WELL (FT) 60	BORE HOLE DEPTH (FT) 60	DEPTH WATER FIRST ENCOUNTERED (FT) Dry	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 0'	DATE STATIC MEASURED 2-11-24	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	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	20	6"	PVC 2"SCH40	Thread	2"	SCH40	N/A
	20	30	6"	PVC 2"SCH40	Thread	2"	SCH40	.02
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				None pulled and plugged				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-04791	POD NO. 1	TRN NO. 753933
LOCATION 26S.34E.13.444	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST: RIG SUPERVISION


5. SIGNATURE


FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO. C-04791	POD NO. 1	TRN NO. 753933	
LOCATION 765.34E.13.444	WELL TAG ID NO.		PAGE 2 OF 2





APPENDIX C


Lithologic Soil Sampling Logs


								Sample Name: BH01		Date: 7/26/24	
								Site Name: Grevey Com TB			
								Incident Number: nAPP2420059937			
								Job Number: 03A2270054			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.033407, -103.395879								Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	2,928		Y	BH01	0	0	CCHE	Moist, Light Stain, Caliche, Non Pliable, Non Plastic			
M	ND	66	N	BH01	1	1	SP-SM	Moist, No Stain, Sand, Non Pliable, Non Plastic			
Total Depth @ 1 ft bgs											


 ENSOLUM		Sample Name: BH02		Date: 7/30/24				
		Site Name: Grevey Com TB						
		Incident Number: nAPP2420059937						
		Job Number: 03A2270054						
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: Israel Estrella		Method: Hand Auger		
Coordinates: 32.033438, -103.396002				Hole Diameter: 3"		Total Depth: 1'		
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH02	0	0	CCHE	Moist, Light Stain, Caliche, Non Pliable, Non Plastic
M	ND	31	N	BH02	1	1	SP-SM	Moist, No Stain, Sand, Non Pliable, Non Plastic
Total Depth @ 1 ft bgs								


								Sample Name: BH03		Date: 7/26/24	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Grevey Com TB			
								Incident Number: nAPP2420059937			
								Job Number: 03A2270054			
Coordinates: 32.033343, -103.396006								Logged By: Israel Estrella		Method: Hand Auger	
Hole Diameter: 3"								Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	1069		Y	BH03	0	0	CCHE	Moist, Light Stain, Caliche, Non Pliable, Non Plastic			
M	ND	36	N	BH03	1	1	SP-SM	Moist, No Stain, Sand, Non Pliable, Non Plastic			
Total Depth @ 1 ft bgs											


 ENSOLUM								Sample Name: BH04		Date: 7/30/24	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Grevey Com TB			
								Incident Number: nAPP2420059937			
								Job Number: 03A2270054			
Coordinates: 32.033409, -103.396051								Logged By: Israel Estrella		Method: Hand Auger	
Hole Diameter: 3"								Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			Y	BH04	0	0	CCHE	Dry, Light Stain, Caliche, Non Pliable, Non Plastic			
D	263	66	N	BH04	1	1	SP-SM	Dry, No Stain, Sand, Non Pliable, Non Plastic			
Total Depth @ 1 ft bgs											


								Sample Name: BH05		Date: 7/30/24	
								Site Name: Grevey Com TB			
								Incident Number: nAPP2420059937			
								Job Number: 03A2270054			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.033286, -103.396167								Hole Diameter: 3"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			Y	BH05	0	0	CCHE	Dry, Light Stain, Caliche, Non Pliable, Non Plastic			
D			Y	BH05	1	1	SP-SM	Dry, Light Stain, Sand, Non Pliable, Non Plastic			
D			Y	BH05	2	2					
D			N	BH05	3	3	CCHE	Dry, Light Stain, Caliche, Non Pliable, Non Plastic			
D	ND	110	N	BH05	4	4					
Total Depth @ 4 ft bgs											


								Sample Name: BH06		Date: 7/30/24					
								Site Name: Grevey Com TB							
								Incident Number: nAPP2420059937							
								Job Number: 03A2270054							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger					
Coordinates: 32.033180, -103.396097								Hole Diameter: 3"		Total Depth: 1'					
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.															
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
D			Y	BH06	0	0	CCHE	Dry, Light Stain, Caliche, Non Pliable, Non Plastic							
D	347	66	Y	BH06	1	1	SP-SM	Dry, No Stain, Sand, Non Pliable, Non Plastic							
Total Depth @ 1 ft bgs															

 ENSOLUM		Sample Name: BH07		Date: 7/30/24				
		Site Name: Grevey Com TB						
		Incident Number: nAPP2420059937						
		Job Number: 03A2270054						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.033296, -103.395949			Logged By: Israel Estrella		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			Y	BH07	0	0	CCHE	Dry, Light Stain, Caliche, Non Pliable, Non Plastic
D			Y	BH07	1	1		
D			Y	BH07	2	2		
D			v	BH07	3	3		
D	ND	110	N	BH07	4	4		
Total Depth @ 4 ft bgs								

								Sample Name: BH08		Date: 7/30/24	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Grevey Com TB			
								Incident Number: nAPP2420059937			
								Job Number: 03A2270054			
Coordinates: 32.033450, -103.395846								Logged By: Israel Estrella		Method: Hand Auger	
								Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			Y	BH08	0	0	CCHE	Dry, Light Stain, Caliche, Non Pliable, Non Plastic			
D			Y	BH08	1	1	SP-SM	Dry, Light Stain, Sand, Non Pliable, Non Plastic			
D	ND	92	Y	BH08	2	2	SP-SM	Dry, No Stain, Sand, Non Pliable, Non Plastic			
Total Depth @ 2 ft bgs											

								Sample Name: BH09		Date: 7/30/24	
								Site Name: Grevey Com TB			
								Incident Number: nAPP2420059937			
								Job Number: 03A2270054			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.033041, -103.396146								Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			Y	BH09	0	0	SP-SM	Dry, No Stain, Sand, Non Pliable, Non Plastic			
D	ND	48	Y	BH09	1	1	SP-SM	Dry, No Stain, Sand, Non Pliable, Non Plastic			
Total Depth @ 1 ft bgs											

								Sample Name: BH10		Date: 7/30/24	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Grevey Com TB			
								Incident Number: nAPP2420059937			
								Job Number: 03A2270054			
Coordinates: 32.032926, -103.396149								Logged By: Israel Estrella		Method: Hand Auger	
Hole Diameter: 3"								Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	BH10	0	0	SP-SM	Dry, No Stain, Sand, Non Pliable, Non Plastic			
D	ND	32	N	BH10	1	1	SP-SM	Dry, No Stain, Sand, Non Pliable, Non Plastic			
Total Depth @ 1 ft bgs											

								Sample Name: BH11		Date: 10/4/2024	
								Site Name: Grevey Com TB			
								Incident Number: nAPP2420059937			
								Job Number: 03A2270054			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole Burton		Method: Hand Auger	
Coordinates: 32.0334607, -103.3958969								Hole Diameter: 3"		Total Depth: 6'	
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		0	0	CCHE	Pad Caliche - Dry, Light Stain, Caliche, Non Pliable, Non Plastic			
M	7,200		Y		1	1	SP-SM	Silt/Sand - Dry, Light Stain, Sand, Non Pliable, Non Plastic			
M	4,200		N		2	2					
M	>3,562		N		3	3					
M	1,758		N		4	4					
M	599		N		5	5					
D	<162		N		6	6	CCHE	Caliche - Dry, No Stain, Caliche, Non Pliable, Non Plastic			
Total Depth = 6'											



APPENDIX B

Photographic Log



Photographic Log

Matador Production Company

Grevey Com TB

nAPP2420059937



Photograph 1

Date: 07/18/2024

Description: Release Extent

View: North



Photograph 2

Date: 07/18/2024

Description: Release Extent

View: Southeast



Photograph 3

Date: 07/18/2024

Description: Release Extent

View: Southeast



Photograph 4

Date: 07/18/2024

Description: Release Extent

View: South



Photographic Log

Matador Production Company

Grevey Com TB

nAPP2420059937



Photograph 5

Date: 07/18/2024

Description: Release Extent

View: Southwest



Photograph 6

Date: 07/18/2024

Description: Release Extent

View: Southwest



Photograph 7

Date: 07/26/2024

Description: Liner Integrity Inspection

View: West



Photograph 8

Date: 07/26/2024

Description: Liner Integrity Inspection

View: West



Photographic Log

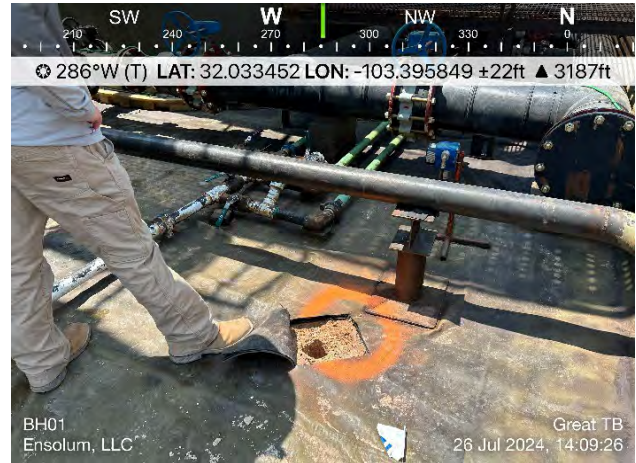
Matador Production Company

Grevey Com TB

nAPP2420059937



Photograph 9 Date: 07/26/2024
Description: Liner Integrity Inspection
View: Northwest



Photograph 10 Date: 07/26/2024
Description: Vertical Delineation Sampling
View: West



Photograph 11 Date: 07/26/2024
Description: Liner Patch
View: West



Photograph 12 Date: 07/26/2024
Description: Liner Patch
View: West



Photographic Log

Matador Production Company

Grevey Com TB

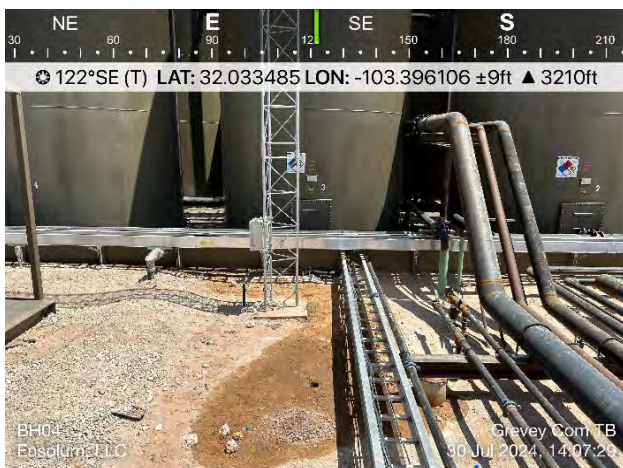
nAPP2420059937



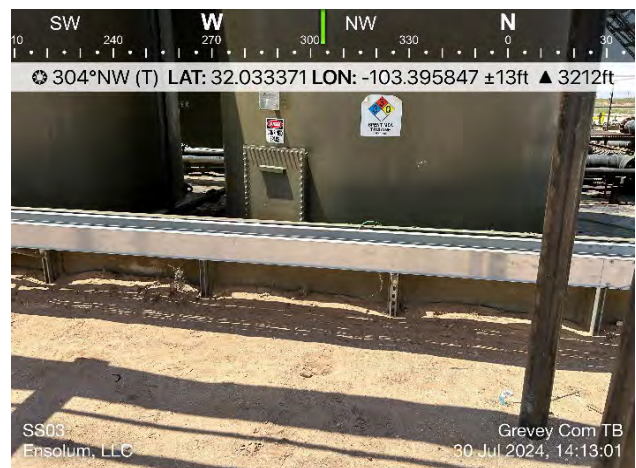
Photograph 13 Date: 07/30/2024
Description: Lateral Delineation Sampling
View: East



Photograph 14 Date: 07/30/2024
Description: Lateral Delineation Sampling
View: East



Photograph 15 Date: 07/30/2024
Description: Delineation Sampling
View: Southeast



Photograph 16 Date: 07/30/2024
Description: Lateral Delineation Sampling
View: Northwest

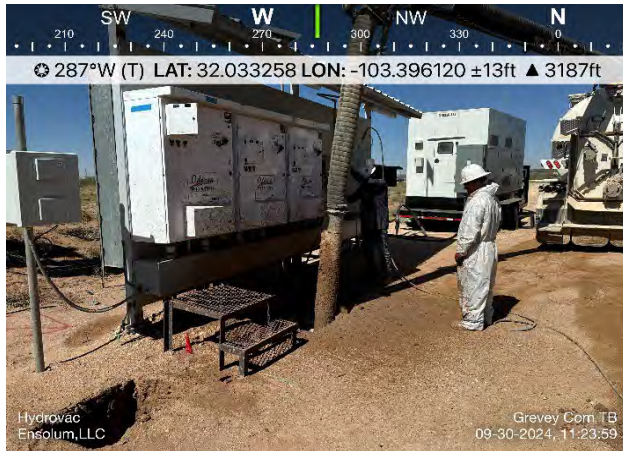


Photographic Log

Matador Production Company

Grevey Com TB

nAPP2420059937



Photograph 17
Description: Hydrovac lines
View: West

Date: 09/30/2024



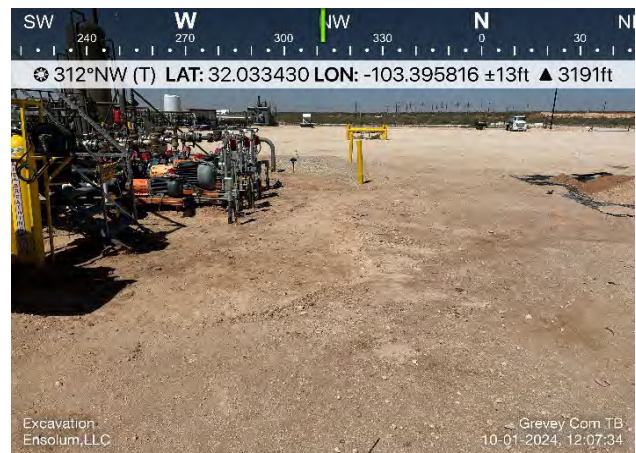
Photograph 18
Description: Surface scrape
View: North

Date: 09/30/2024



Photograph 19
Description: Excavation
View: Northeast

Date: 10/01/2024



Photograph 20
Description: Excavation
View: Northwest

Date: 10/01/2024



Photographic Log

Matador Production Company

Grevey Com TB

nAPP2420059937



Photograph 21
Description: Excavation
View: Northwest

Date: 10/02/2024



Photograph 22
Description: Excavation
View: Northeast

Date: 10/02/2024



Photograph 23
Description: Excavation
View: North

Date: 10/02/2024



Photograph 24
Description: Excavation
View: Southwest

Date: 10/03/2024



Photographic Log

Matador Production Company

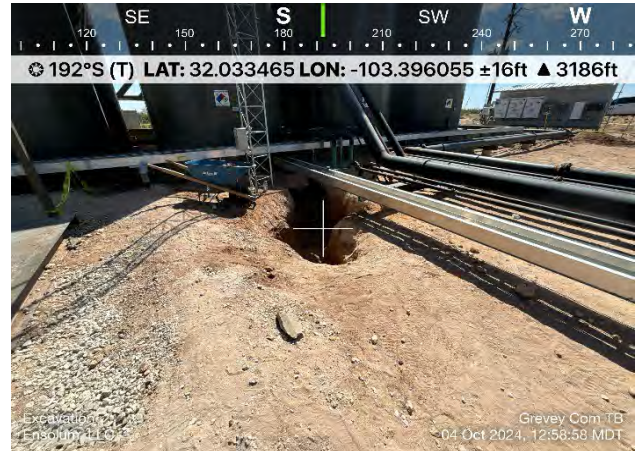
Grevey Com TB

nAPP2420059937



Photograph 25
Description: Excavation
View: West

Date: 10/03/2024



Photograph 26
Description: South
View: Excavation

Date: 10/04/2024



Photograph 27
Description: Excavation
View: Southeast

Date: 10/04/2024



Photograph 28
Description: Excavation
View: Southeast

Date: 10/04/2024



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Grevey Com TB

Work Order: E407238

Job Number: 23003-0002

Received: 7/30/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/2/24

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: 8/2/24

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



Project Name: Grevey Com TB
Workorder: E407238
Date Received: 7/30/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/30/2024 8:30:00AM, under the Project Name: Grevey Com TB.

The analytical test results summarized in this report with the Project Name: Grevey Com 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

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/02/24 08:22
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 - 0'	E407238-01A	Soil	07/26/24	07/30/24	Glass Jar, 2 oz.
BH01 - 1'	E407238-02A	Soil	07/26/24	07/30/24	Glass Jar, 2 oz.
BH02 - 0'	E407238-03A	Soil	07/26/24	07/30/24	Glass Jar, 2 oz.
BH02 - 1'	E407238-04A	Soil	07/26/24	07/30/24	Glass Jar, 2 oz.
BH03 - 0'	E407238-05A	Soil	07/26/24	07/30/24	Glass Jar, 2 oz.
BH03 - 1'	E407238-06A	Soil	07/26/24	07/30/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/2/2024 8:22:31AM
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BH01 - 0'

E407238-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431050	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	0.525	0.0250	1	07/30/24	07/31/24	
Toluene	0.285	0.0250	1	07/30/24	07/31/24	
o-Xylene	1.78	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	0.303	0.0500	1	07/30/24	07/31/24	
Total Xylenes	2.08	0.0250	1	07/30/24	07/31/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431050	
Gasoline Range Organics (C6-C10)	30.1	20.0	1	07/30/24	07/31/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431047	
Diesel Range Organics (C10-C28)	8690	125	5	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	2950	250	5	07/30/24	07/30/24	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431053	
Chloride	2380	100	5	07/30/24	07/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/2/2024 8:22:31AM
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BH01 - 1'

E407238-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431050	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: 4-Bromochlorobenzene-PID	95.2 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431047	
Diesel Range Organics (C10-C28)	63.2	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
Surrogate: n-Nonane	92.9 %	50-200		07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431053	
Chloride	32.8	20.0	1	07/30/24	07/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/2/2024 8:22:31AM
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BH02 - 0'

E407238-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431050	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431047	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
Surrogate: n-Nonane	87.4 %	50-200		07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431053	
Chloride	3920	200	10	07/30/24	07/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/2/2024 8:22:31AM
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BH02 - 1'

E407238-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431050	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: 4-Bromochlorobenzene-PID	92.8 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431047	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
Surrogate: n-Nonane	90.7 %	50-200		07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431053	
Chloride	40.9	20.0	1	07/30/24	07/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/2/2024 8:22:31AM
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BH03 - 0'

E407238-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431050	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: 4-Bromochlorobenzene-PID	92.5 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431047	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
Surrogate: n-Nonane	91.9 %	50-200		07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431053	
Chloride	482	40.0	2	07/30/24	07/30/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/2/2024 8:22:31AM
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BH03 - 1'

E407238-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431050	
Benzene	ND	0.0250	1	07/30/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/30/24	07/31/24	
Toluene	ND	0.0250	1	07/30/24	07/31/24	
o-Xylene	ND	0.0250	1	07/30/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/30/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/30/24	07/31/24	
Surrogate: 4-Bromochlorobenzene-PID	92.1 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/30/24	07/31/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		07/30/24	07/31/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431047	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/30/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/30/24	07/30/24	
Surrogate: n-Nonane	84.6 %	50-200		07/30/24	07/30/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431053	
Chloride	ND	20.0	1	07/30/24	07/30/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/2/2024 8:22:31AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431050-BLK1) Prepared: 07/30/24 Analyzed: 07/31/24

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	7.14		8.00		89.2	70-130			

LCS (2431050-BS1) Prepared: 07/30/24 Analyzed: 07/31/24

Benzene	4.31	0.0250	5.00		86.3	70-130			
Ethylbenzene	4.21	0.0250	5.00		84.2	70-130			
Toluene	4.38	0.0250	5.00		87.5	70-130			
o-Xylene	4.29	0.0250	5.00		85.9	70-130			
p,m-Xylene	8.66	0.0500	10.0		86.6	70-130			
Total Xylenes	13.0	0.0250	15.0		86.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike (2431050-MS1) Source: E407237-07 Prepared: 07/30/24 Analyzed: 07/31/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.20	0.0250	5.00	ND	104	61-130			
o-Xylene	5.11	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

Matrix Spike Dup (2431050-MSD1) Source: E407237-07 Prepared: 07/30/24 Analyzed: 07/31/24

Benzene	4.81	0.0250	5.00	ND	96.2	54-133	6.80	20	
Ethylbenzene	4.69	0.0250	5.00	ND	93.7	61-133	6.17	20	
Toluene	4.87	0.0250	5.00	ND	97.4	61-130	6.48	20	
o-Xylene	4.80	0.0250	5.00	ND	95.9	63-131	6.34	20	
p,m-Xylene	9.64	0.0500	10.0	ND	96.4	63-131	5.90	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.3	63-131	6.04	20	
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/2/2024 8:22:31AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431050-BLK1) Prepared: 07/30/24 Analyzed: 07/31/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.42		8.00		105	70-130			

LCS (2431050-BS2) Prepared: 07/30/24 Analyzed: 07/31/24

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.61		8.00		108	70-130			

Matrix Spike (2431050-MS2) Source: E407237-07 Prepared: 07/30/24 Analyzed: 07/31/24

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130			

Matrix Spike Dup (2431050-MSD2) Source: E407237-07 Prepared: 07/30/24 Analyzed: 08/01/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130	5.77	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.39		8.00		105	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/2/2024 8:22:31AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431047-BLK1) Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

LCS (2431047-BS1) Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	246	25.0	250		98.4	38-132			
Surrogate: n-Nonane	47.5		50.0		94.9	50-200			

Matrix Spike (2431047-MS1) Source: E407239-21 Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	453	125	250	145	123	38-132			
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			

Matrix Spike Dup (2431047-MSD1) Source: E407239-21 Prepared: 07/30/24 Analyzed: 07/30/24

Diesel Range Organics (C10-C28)	380	125	250	145	93.9	38-132	17.6	20	
Surrogate: n-Nonane	45.9		50.0		91.7	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/2/2024 8:22:31AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431053-BLK1)					Prepared: 07/30/24 Analyzed: 07/30/24				
Chloride	ND	20.0							
LCS (2431053-BS1)					Prepared: 07/30/24 Analyzed: 07/30/24				
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2431053-MS1)					Source: E407237-02		Prepared: 07/30/24 Analyzed: 07/30/24		
Chloride	481	20.0	250	225	103	80-120			
Matrix Spike Dup (2431053-MSD1)					Source: E407237-02		Prepared: 07/30/24 Analyzed: 07/30/24		
Chloride	480	20.0	250	225	102	80-120	0.322	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:	Grevey Com TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/02/24 08:22

- 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: 11/17/2024 11:32:15 AM

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: Grevey Com TB				Address: 3122 National Parks Hwy		E407238	23003-0002				X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEO 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
12:56	7/26/2024	Soil	1	BH01 - 0'		1						X					
13:01	7/26/2024	Soil	1	BH01 - 1'		2						X					
13:05	7/26/2024	Soil	1	BH02 - 0'		3						X					
13:11	7/26/2024	Soil	1	BH02 - 1'		4						X					
13:14	7/26/2024	Soil	1	BH03 - 0'		5						X					
13:21	7/26/2024	Soil	1	BH03 - 1'		6						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: _____																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



Envirotech Analytical Laboratory

Printed: 7/30/2024 8:59:25AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	07/30/24 08:30	Work Order ID:	E407238
Phone:	(972) 371-5200	Date Logged In:	07/30/24 08:53	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/05/24 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/Resolution

Sampled by name is missing in COC by client.

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: Grevey Com TB

Work Order: E408001

Job Number: 23003-0002

Received: 8/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/6/24

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: 8/6/24

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



Project Name: Grevey Com TB
Workorder: E408001
Date Received: 8/1/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/1/2024 8:30:00AM, under the Project Name: Grevey Com TB.

The analytical test results summarized in this report with the Project Name: Grevey Com 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

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/06/24 14:51
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0'	E408001-01A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
SS02 - 0'	E408001-02A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
SS03 - 0'	E408001-03A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
SS04 - 0'	E408001-04A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH04 - 0'	E408001-05A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH04 - 1'	E408001-06A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH05 - 0'	E408001-07A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH05 - 2'	E408001-08A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH05 - 4'	E408001-09A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH06 - 0'	E408001-10A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH06 - 1'	E408001-11A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH07 - 0'	E408001-12A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH07 - 2'	E408001-13A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH07 - 4'	E408001-14A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH08 - 0'	E408001-15A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH08 - 2'	E408001-16A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH09 - 0'	E408001-17A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH09 - 1'	E408001-18A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.
BH10 - 0'	E408001-19A	Soil	07/30/24	08/01/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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SS01 - 0'

E408001-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
Surrogate: 4-Bromochlorobenzene-PID	86.8 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/24	08/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/24	08/01/24	
Surrogate: n-Nonane	116 %	50-200		08/01/24	08/01/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	362	40.0	2	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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SS02 - 0'

E408001-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.7 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/24	08/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/24	08/01/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		08/01/24	08/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	70.4	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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SS03 - 0'

E408001-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.9 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/24	08/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/24	08/01/24	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		08/01/24	08/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	ND	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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SS04 - 0'

E408001-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.4 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/24	08/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/24	08/01/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		08/01/24	08/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	112	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH04 - 0'

E408001-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.125	5	08/01/24	08/02/24	
Ethylbenzene	3.61	0.125	5	08/01/24	08/02/24	
Toluene	1.04	0.125	5	08/01/24	08/02/24	
o-Xylene	9.05	0.125	5	08/01/24	08/02/24	
p,m-Xylene	12.0	0.250	5	08/01/24	08/02/24	
Total Xylenes	21.1	0.125	5	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	108 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	261	100	5	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	37200	500	20	08/01/24	08/01/24	
Oil Range Organics (C28-C36)	11000	1000	20	08/01/24	08/01/24	
<i>Surrogate: n-Nonane</i>						
	224 %	50-200		08/01/24	08/01/24	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	136	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH04 - 1'

E408001-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.0 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/24	08/01/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/24	08/01/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		08/01/24	08/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	212	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH05 - 0'

E408001-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.125	5	08/01/24	08/02/24	
Ethylbenzene	2.31	0.125	5	08/01/24	08/02/24	
Toluene	0.969	0.125	5	08/01/24	08/02/24	
o-Xylene	6.19	0.125	5	08/01/24	08/02/24	
p,m-Xylene	13.2	0.250	5	08/01/24	08/02/24	
Total Xylenes	19.4	0.125	5	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	109 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	252	100	5	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	29700	500	20	08/01/24	08/01/24	
Oil Range Organics (C28-C36)	8740	1000	20	08/01/24	08/01/24	
<i>Surrogate: n-Nonane</i>						
	201 %	50-200		08/01/24	08/01/24	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	ND	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH05 - 2'

E408001-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	0.0527	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	0.0962	0.0500	1	08/01/24	08/02/24	
Total Xylenes	0.149	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	670	25.0	1	08/01/24	08/01/24	
Oil Range Organics (C28-C36)	221	50.0	1	08/01/24	08/01/24	
<i>Surrogate: n-Nonane</i>						
	122 %	50-200		08/01/24	08/01/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	93.9	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH05 - 4'

E408001-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	73.6	25.0	1	08/01/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	122 %	50-200		08/01/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	71.7	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH06 - 0'

E408001-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	0.0806	0.0500	1	08/01/24	08/02/24	
Total Xylenes	0.0806	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	596	25.0	1	08/01/24	08/02/24	
Oil Range Organics (C28-C36)	240	50.0	1	08/01/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		08/01/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	17400	200	10	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH06 - 1'

E408001-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		08/01/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	267	20.0	1	08/01/24	08/01/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/6/2024 2:51:21PM

BH07 - 0'

E408001-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.125	5	08/01/24	08/02/24	
Ethylbenzene	2.89	0.125	5	08/01/24	08/02/24	
Toluene	2.00	0.125	5	08/01/24	08/02/24	
o-Xylene	6.81	0.125	5	08/01/24	08/02/24	
p,m-Xylene	10.1	0.250	5	08/01/24	08/02/24	
Total Xylenes	16.9	0.125	5	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	242	100	5	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	19600	250	10	08/01/24	08/02/24	
Oil Range Organics (C28-C36)	5910	500	10	08/01/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
		186 %	50-200	08/01/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	ND	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH07 - 2'

E408001-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.2 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	167	25.0	1	08/01/24	08/02/24	
Oil Range Organics (C28-C36)	105	50.0	1	08/01/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		08/01/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	123	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH07 - 4'

E408001-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.6 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		08/01/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	ND	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH08 - 0'

E408001-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.125	5	08/01/24	08/02/24	
Ethylbenzene	5.98	0.125	5	08/01/24	08/02/24	
Toluene	3.06	0.125	5	08/01/24	08/02/24	
o-Xylene	13.9	0.125	5	08/01/24	08/02/24	
p,m-Xylene	33.6	0.250	5	08/01/24	08/02/24	
Total Xylenes	47.5	0.125	5	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	416	100	5	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	29200	500	20	08/01/24	08/02/24	
Oil Range Organics (C28-C36)	8040	1000	20	08/01/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
		307 %	50-200	08/01/24	08/02/24	S5
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	428	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH08 - 2'

E408001-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	523	25.0	1	08/01/24	08/02/24	
Oil Range Organics (C28-C36)	199	50.0	1	08/01/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		08/01/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	31.6	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH09 - 0'

E408001-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.1 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	313	25.0	1	08/01/24	08/02/24	
Oil Range Organics (C28-C36)	197	50.0	1	08/01/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		08/01/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	ND	20.0	1	08/01/24	08/01/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH09 - 1'

E408001-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.4 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		08/01/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	ND	20.0	1	08/01/24	08/02/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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BH10 - 0'

E408001-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Benzene	ND	0.0250	1	08/01/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/01/24	08/02/24	
Toluene	ND	0.0250	1	08/01/24	08/02/24	
o-Xylene	ND	0.0250	1	08/01/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/01/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/01/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/01/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/01/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2431111	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/01/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/01/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		08/01/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2431113	
Chloride	ND	20.0	1	08/01/24	08/02/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/6/2024 2:51:21PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431109-BLK1) Prepared: 08/01/24 Analyzed: 08/02/24

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	6.99		8.00		87.4	70-130			

LCS (2431109-BS1) Prepared: 08/01/24 Analyzed: 08/02/24

Benzene	4.87	0.0250	5.00		97.5	70-130			
Ethylbenzene	4.59	0.0250	5.00		91.7	70-130			
Toluene	4.81	0.0250	5.00		96.1	70-130			
o-Xylene	4.66	0.0250	5.00		93.1	70-130			
p,m-Xylene	9.43	0.0500	10.0		94.3	70-130			
Total Xylenes	14.1	0.0250	15.0		93.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.01		8.00		87.7	70-130			

Matrix Spike (2431109-MS1) Source: E408001-03 Prepared: 08/01/24 Analyzed: 08/02/24

Benzene	5.27	0.0250	5.00	ND	105	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.3	61-133			
Toluene	5.17	0.0250	5.00	ND	103	61-130			
o-Xylene	5.00	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.00		8.00		87.4	70-130			

Matrix Spike Dup (2431109-MSD1) Source: E408001-03 Prepared: 08/01/24 Analyzed: 08/02/24

Benzene	5.15	0.0250	5.00	ND	103	54-133	2.22	20	
Ethylbenzene	4.83	0.0250	5.00	ND	96.7	61-133	1.63	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	1.90	20	
o-Xylene	4.91	0.0250	5.00	ND	98.2	63-131	1.82	20	
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131	1.47	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.0	63-131	1.59	20	
Surrogate: 4-Bromochlorobenzene-PID	7.00		8.00		87.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/6/2024 2:51:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431109-BLK1) Prepared: 08/01/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.33		8.00		104	70-130			

LCS (2431109-BS2) Prepared: 08/01/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.48		8.00		106	70-130			

Matrix Spike (2431109-MS2) Source: E408001-03 Prepared: 08/01/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.37		8.00		105	70-130			

Matrix Spike Dup (2431109-MSD2) Source: E408001-03 Prepared: 08/01/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.6	70-130	2.64	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.54		8.00		107	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/6/2024 2:51:21PM

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
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Blank (2431111-BLK1) Prepared: 08/01/24 Analyzed: 08/01/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.8		50.0		114	50-200			

LCS (2431111-BS1) Prepared: 08/01/24 Analyzed: 08/01/24

Diesel Range Organics (C10-C28)	298	25.0	250		119	38-132			
Surrogate: n-Nonane	58.9		50.0		118	50-200			

Matrix Spike (2431111-MS1) Source: E408001-08 Prepared: 08/01/24 Analyzed: 08/05/24

Diesel Range Organics (C10-C28)	990	25.0	250	670	128	38-132			
Surrogate: n-Nonane	57.1		50.0		114	50-200			

Matrix Spike Dup (2431111-MSD1) Source: E408001-08 Prepared: 08/01/24 Analyzed: 08/01/24

Diesel Range Organics (C10-C28)	975	25.0	250	670	122	38-132	1.48	20	
Surrogate: n-Nonane	56.1		50.0		112	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/6/2024 2:51:21PM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431113-BLK1)					Prepared: 08/01/24 Analyzed: 08/01/24				
Chloride	ND	20.0							
LCS (2431113-BS1)					Prepared: 08/01/24 Analyzed: 08/01/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2431113-MS1)					Source: E408001-01		Prepared: 08/01/24 Analyzed: 08/01/24		
Chloride	573	40.0	250	362	84.7	80-120			
Matrix Spike Dup (2431113-MSD1)					Source: E408001-01		Prepared: 08/01/24 Analyzed: 08/01/24		
Chloride	592	40.0	250	362	92.2	80-120	3.21	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:	Grevey Com TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/06/24 14:51

- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E408001		Job Number 23002-0002		1D	2D	3D	Std	NM	CO	UT	TX
Project: Grevey Com TB				Address: 3122 National Parks Hwy										x			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
9:45	7/30/2024	Soil	1	SS01 - 0'		1						X					
10:14	7/30/2024	Soil	1	SS02 - 0'		2						X					
9:50	7/30/2024	Soil	1	SS03 - 0'		3						X					
9:52	7/30/2024	Soil	1	SS04 - 0'		4						X					
10:30	7/30/2024	Soil	1	BH04 - 0'		5						X					
10:33	7/30/2024	Soil	1	BH04 - 1'		6						X					
10:37	7/30/2024	Soil	1	BH05 - 0'		7						X					
10:42	7/30/2024	Soil	1	BH05 - 2'		8						X					
10:47	7/30/2024	Soil	1	BH05 - 4'		9						X					
10:48	7/30/2024	Soil	1	BH06 - 0'		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: _____																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



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Chain of Custody

Page 2 of 2

Client Information				Invoice Information				Lab Use Only				TAT				State												
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D		2D		3D		Std		NM		CO		UT		TX		
Project: Grevey Com TB				Address: 3122 National Parks Hwy				E 408001		23002-0002								X		X								
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																								
Address: 3122 National Parks Hwy				Phone: 575-988-0055																								
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																								
Phone: 575-988-0055				Miscellaneous:																								
Email: agiovengo@ensolum.com																												
Analysis and Method																												
EPA Program																												
SDWA CWA RCRA																												
Compliance Y or N																												
PWSID #																												
Remarks																												
Sample Information																												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	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														
10:51	7/30/2024	Soil	1	BH06 - 1'		11						X																
10:53	7/30/2024	Soil	1	BH07 - 0'		12						X																
10:59	7/30/2024	Soil	1	BH07 - 2'		13						X																
13:25	7/30/2024	Soil	1	BH07 - 4'		14						X																
10:14	7/30/2024	Soil	1	BH08 - 0'		15						X																
10:19	7/30/2024	Soil	1	BH08 - 2'		16						X																
11:50	7/30/2024	Soil	1	BH09 - 0'		17						X																
11:51	7/30/2024	Soil	1	BH09 - 1'		18						X																
11:52	7/30/2024	Soil	1	BH10 - 0'		19						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: _____																												
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.																
		7/31/24		9:01				7-31-24		0901		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																
		7-31-24		1620				7-31-24		1730		T1 _____ T2 _____ T3 _____																
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4</u>																
		7-31-24		2400				8-1-24		0830																		
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time																		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____														Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____														
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																												



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Envirotech Analytical Laboratory

Printed: 8/1/2024 11:06:40AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	08/01/24 08:30	Work Order ID:	E408001
Phone:	(972) 371-5200	Date Logged In:	08/01/24 08:27	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/07/24 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/Resolution

Sampled by name is missing in COC by client.

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.

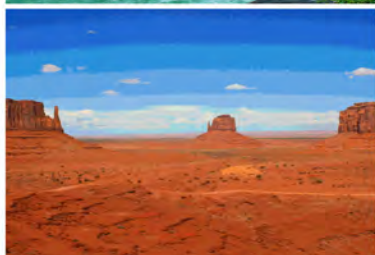
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Grevey Com TB

Work Order: E410014

Job Number: 23003-0002

Received: 10/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/7/24

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: 10/7/24

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



Project Name: Grevey Com TB
Workorder: E410014
Date Received: 10/3/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2024 5:00:00AM, under the Project Name: Grevey Com TB.

The analytical test results summarized in this report with the Project Name: Grevey Com 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

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/07/24 13:54
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS21 @ 2"	E410014-01A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS20 @ 2"	E410014-02A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS15 @ 2"	E410014-03A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS13 @ 2"	E410014-04A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS14 @ 2"	E410014-05A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS06 @ 2"	E410014-06A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS01 @ 2"	E410014-07A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS10 @ 2"	E410014-08A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS03 @ 2"	E410014-09A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS05 @ 2"	E410014-10A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS02 @ 2"	E410014-11A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS 12 @ 2"	E410014-12A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS09 @ 2"	E410014-13A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS07 @ 2"	E410014-14A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS08 @ 2"	E410014-15A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS26 @ 2"	E410014-16A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS11 @ 2"	E410014-17A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS04 @ 2"	E410014-18A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS24 @ 2"	E410014-19A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS25 @ 2"	E410014-20A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS21 @ 2"

E410014-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	99.1 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.7 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	110 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS20 @ 2"

E410014-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.0 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS15 @ 2"
E410014-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	97.5 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.5 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	110 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS13 @ 2"
E410014-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	97.1 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	106 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2024 1:54:41PM

FS14 @ 2"**E410014-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS06 @ 2"
E410014-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	98.0 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.8 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	108 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS01 @ 2"
E410014-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	97.7 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	116 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2024 1:54:41PM

FS10 @ 2"**E410014-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2024 1:54:41PM

FS03 @ 2"**E410014-09**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.5 %	70-130	10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	10/03/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS05 @ 2"
E410014-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	110 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS02 @ 2"
E410014-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.1 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	106 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS 12 @ 2"
E410014-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	97.3 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	109 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS09 @ 2"
E410014-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.7 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	106 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS07 @ 2"
E410014-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.4 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	108 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS08 @ 2"
E410014-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.2 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	110 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS26 @ 2"
E410014-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.6 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	112 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS11 @ 2"
E410014-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.4 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	109 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2024 1:54:41PM

FS04 @ 2"**E410014-18**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	100 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.5 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS24 @ 2"
E410014-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane		105 %	50-200	10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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FS25 @2"
E410014-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	109 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2024 1:54:41PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2440078-BLK1) Prepared: 10/03/24 Analyzed: 10/04/24

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	7.87		8.00		98.3	70-130			

LCS (2440078-BS1) Prepared: 10/03/24 Analyzed: 10/04/24

Benzene	4.86	0.0250	5.00		97.1	70-130			
Ethylbenzene	4.69	0.0250	5.00		93.8	70-130			
Toluene	4.78	0.0250	5.00		95.6	70-130			
o-Xylene	4.67	0.0250	5.00		93.4	70-130			
p,m-Xylene	9.53	0.0500	10.0		95.3	70-130			
Total Xylenes	14.2	0.0250	15.0		94.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			

Matrix Spike (2440078-MS1) Source: E410014-12 Prepared: 10/03/24 Analyzed: 10/04/24

Benzene	5.50	0.0250	5.00	ND	110	54-133			
Ethylbenzene	5.31	0.0250	5.00	ND	106	61-133			
Toluene	5.42	0.0250	5.00	ND	108	61-130			
o-Xylene	5.29	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131			
Total Xylenes	16.1	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.3	70-130			

Matrix Spike Dup (2440078-MSD1) Source: E410014-12 Prepared: 10/03/24 Analyzed: 10/04/24

Benzene	5.22	0.0250	5.00	ND	104	54-133	5.20	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	4.71	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	4.99	20	
o-Xylene	5.05	0.0250	5.00	ND	101	63-131	4.67	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	4.56	20	
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131	4.60	20	
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2024 1:54:41PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2440078-BLK1) Prepared: 10/03/24 Analyzed: 10/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		96.9	70-130			

LCS (2440078-BS2) Prepared: 10/03/24 Analyzed: 10/04/24

Gasoline Range Organics (C6-C10)	49.2	20.0	50.0		98.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			

Matrix Spike (2440078-MS2) Source: E410014-12 Prepared: 10/03/24 Analyzed: 10/04/24

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	97.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.3	70-130			

Matrix Spike Dup (2440078-MSD2) Source: E410014-12 Prepared: 10/03/24 Analyzed: 10/04/24

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.3	70-130	0.190	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2024 1:54:41PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2440068-BLK1) Prepared: 10/03/24 Analyzed: 10/04/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.8		50.0		112	50-200			

LCS (2440068-BS1) Prepared: 10/03/24 Analyzed: 10/04/24

Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	58.7		50.0		117	50-200			

Matrix Spike (2440068-MS1) Source: E410014-04 Prepared: 10/03/24 Analyzed: 10/04/24

Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	54.6		50.0		109	50-200			

Matrix Spike Dup (2440068-MSD1) Source: E410014-04 Prepared: 10/03/24 Analyzed: 10/04/24

Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	6.80	20	
Surrogate: n-Nonane	51.9		50.0		104	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 1:54:41PM
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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 (2440086-BLK1)				Prepared: 10/03/24 Analyzed: 10/03/24					
Chloride	ND	20.0							
LCS (2440086-BS1)				Prepared: 10/03/24 Analyzed: 10/03/24					
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2440086-MS1)				Source: E410014-07		Prepared: 10/03/24 Analyzed: 10/03/24			
Chloride	251	20.0	250	ND	100	80-120			
Matrix Spike Dup (2440086-MSD1)				Source: E410014-07		Prepared: 10/03/24 Analyzed: 10/03/24			
Chloride	252	20.0	250	ND	101	80-120	0.315	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:	Grevey Com TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/07/24 13:54

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

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

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



Chain of Custody

Page 1 of 2

Client Information					Invoice Information			Lab Use Only				TAT				State											
Client: Matador Production Company					Company: Ensolum LLC			Lab WO#		Job Number		1D		2D		3D		Std		NM		CO		UT		TX	
Project: Grevey Com TB					Address: 3122 National Parks Hwy			E410614		23003-0002										X							
Project Manager: Ashley Giovengo					City, State, Zip: Carlsbad NM, 88220																						
Address: 3122 National Parks Hwy					Phone: 575-988-0055																						
City, State, Zip: Carlsbad NM, 88220					Email: agiovengo@ensolum.com																						
Phone: 575-988-0055					Miscellaneous:																						
Email: agiovengo@ensolum.com																											
Sample Information					Analysis and Method										EPA Program												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Remarks				
1341	10-1-24	Soil	1	FS21 @ 2"		1						X															
1332	10-1-24	Soil	1	FS20 @ 2"		2						X															
1344	10-1-24	Soil	1	FS15 @ 2"		3						X															
1115	10-1-24	Soil	1	FS13 @ 2"		4						X															
1314	10-1-24	Soil	1	FS14 @ 2"		5						X															
1254	10-1-24	Soil	1	FS06 @ 2"		6						X															
1057	10-1-24	Soil	1	FS01 @ 2"		7						X															
1114	10-1-24	Soil	1	FS10 @ 2"		8						X															
1103	10-1-24	Soil	1	FS03 @ 2"		9						X															
1111	10-1-24	Soil	1	FS05 @ 2"		10						X															
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: Brandon Deal																											
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															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: Y / N															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C 4															
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																											
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											



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Chain of Custody

Page 2 of 2

Client Information					Invoice Information			Lab Use Only				TAT				State											
Client: Matador Production Company					Company: Ensolum LLC			Lab WO#		Job Number		1D		2D		3D		Std		NM		CO		UT		TX	
Project: Grevey Com TB					Address: 3122 National Parks Hwy			E410014		23003-0002										x							
Project Manager: Ashley Giovengo					City, State, Zip: Carlsbad NM, 88220																						
Address: 3122 National Parks Hwy					Phone: 575-988-0055																						
City, State, Zip: Carlsbad NM, 88220					Email: agiovengo@ensolum.com																						
Phone: 575-988-0055					Miscellaneous:																						
Email: agiovengo@ensolum.com																											
Sample Information					Analysis and Method										EPA Program												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA										
1101	10-1-24	Soil	1	FS 02 @ 2"		11						X															
1300	10-1-24	Soil	1	FS 12 @ 2"		12						X															
1257	10-1-24	Soil	1	FS 09 @ 2"		13						X															
1316	10-1-24	Soil	1	FS 07 @ 2"		14						X															
1111	10-1-24	Soil	1	FS 08 @ 2"		15						X															
1339	10-1-24	Soil	1	FS 26 @ 2"		16						X															
1113	10-1-24	Soil	1	FS 11 @ 2"		17						X															
1306	10-1-24	Soil	1	FS 04 @ 2"		18						X															
1324	10-1-24	Soil	1	FS 24 @ 2"		19						X															
1325	10-1-24	Soil	1	FS 25 @ 2"		20						X															
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: Brandon Deal																											
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															
[Signature]		10/02/2024		1400		[Signature]		10-2-24		1400		Lab Use Only															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: Y / N															
[Signature]		10-2-24		1515		[Signature]		10-2-24		1210																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3															
[Signature]		10-1-24		20:46		[Signature]		10-3-24		0500																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C															
[Signature]						[Signature]						4															
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																											
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											



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Envirotech Analytical Laboratory

Printed: 10/3/2024 9:45:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	10/03/24 05:00	Work Order ID:	E410014
Phone:	(972) 371-5200	Date Logged In:	10/02/24 14:45	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	10/09/24 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.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Grevey Com TB

Work Order: E410014

Job Number: 23003-0002

Received: 10/3/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/7/24

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: 10/7/24

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



Project Name: Grevey Com TB
Workorder: E410014
Date Received: 10/3/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/3/2024 5:00:00AM, under the Project Name: Grevey Com TB.

The analytical test results summarized in this report with the Project Name: Grevey Com 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

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/07/24 16:00
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS21 @ 0.5'	E410014-01A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS20 @ 0.5'	E410014-02A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS15 @ 0.5'	E410014-03A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS13 @ 0.5'	E410014-04A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS14 @ 0.5'	E410014-05A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS06 @ 0.5'	E410014-06A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS01 @ 0.5'	E410014-07A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS10 @ 0.5'	E410014-08A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS03 @ 0.5'	E410014-09A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS05 @ 0.5'	E410014-10A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS02 @ 0.5'	E410014-11A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS 12 @ 0.5'	E410014-12A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS09 @ 0.5'	E410014-13A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS07 @ 0.5'	E410014-14A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS08 @ 0.5'	E410014-15A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS26 @ 0.5'	E410014-16A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS11 @ 0.5'	E410014-17A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS04 @ 0.5'	E410014-18A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS24 @ 0.5'	E410014-19A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.
FS25 @ 0.5'	E410014-20A	Soil	10/01/24	10/03/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS21 @ 0.5'
E410014-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	99.1 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.7 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	110 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS20 @ 0.5'
E410014-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	98.4 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.0 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	109 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS15 @ 0.5'
E410014-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	97.5 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.5 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	110 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS13 @ 0.5'
E410014-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	97.1 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	106 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS14 @ 0.5'
E410014-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	98.2 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.5 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	108 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS06 @ 0.5'
E410014-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	98.0 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.8 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/04/24	
Surrogate: n-Nonane	108 %	50-200		10/03/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS01 @ 0.5'
E410014-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	97.7 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	116 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2024 4:00:21PM

FS10 @ 0.5'

E410014-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS03 @ 0.5'
E410014-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.5 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	108 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS05 @ 0.5'
E410014-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	110 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2024 4:00:21PM

FS02 @ 0.5'**E410014-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.1 %	70-130	10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	10/03/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS 12 @ 0.5'
E410014-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/04/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/04/24	
Toluene	ND	0.0250	1	10/03/24	10/04/24	
o-Xylene	ND	0.0250	1	10/03/24	10/04/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/04/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/04/24	
Surrogate: 4-Bromochlorobenzene-PID	97.3 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		10/03/24	10/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	109 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2024 4:00:21PM

FS09 @ 0.5'**E410014-13**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.7 %	70-130	10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
<i>Surrogate: n-Nonane</i>						
		106 %	50-200	10/03/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2024 4:00:21PM

FS07 @ 0.5'**E410014-14**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.4 %	70-130	10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	10/03/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS08 @ 0.5'
E410014-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.2 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	110 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/7/2024 4:00:21PM

FS26 @ 0.5'

E410014-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	10/03/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS11 @ 0.5'
E410014-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.4 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	109 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS04 @ 0.5'
E410014-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.5 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	115 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS24 @ 0.5'
E410014-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.6 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	105 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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FS25 @ 0.5'
E410014-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Benzene	ND	0.0250	1	10/03/24	10/05/24	
Ethylbenzene	ND	0.0250	1	10/03/24	10/05/24	
Toluene	ND	0.0250	1	10/03/24	10/05/24	
o-Xylene	ND	0.0250	1	10/03/24	10/05/24	
p,m-Xylene	ND	0.0500	1	10/03/24	10/05/24	
Total Xylenes	ND	0.0250	1	10/03/24	10/05/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2440078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/03/24	10/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		10/03/24	10/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2440068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/03/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/03/24	10/05/24	
Surrogate: n-Nonane	109 %	50-200		10/03/24	10/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2440086	
Chloride	ND	20.0	1	10/03/24	10/03/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2024 4:00:21PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2440078-BLK1) Prepared: 10/03/24 Analyzed: 10/04/24

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	7.87		8.00		98.3	70-130			

LCS (2440078-BS1) Prepared: 10/03/24 Analyzed: 10/04/24

Benzene	4.86	0.0250	5.00		97.1	70-130			
Ethylbenzene	4.69	0.0250	5.00		93.8	70-130			
Toluene	4.78	0.0250	5.00		95.6	70-130			
o-Xylene	4.67	0.0250	5.00		93.4	70-130			
p,m-Xylene	9.53	0.0500	10.0		95.3	70-130			
Total Xylenes	14.2	0.0250	15.0		94.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			

Matrix Spike (2440078-MS1) Source: E410014-12 Prepared: 10/03/24 Analyzed: 10/04/24

Benzene	5.50	0.0250	5.00	ND	110	54-133			
Ethylbenzene	5.31	0.0250	5.00	ND	106	61-133			
Toluene	5.42	0.0250	5.00	ND	108	61-130			
o-Xylene	5.29	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131			
Total Xylenes	16.1	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.3	70-130			

Matrix Spike Dup (2440078-MSD1) Source: E410014-12 Prepared: 10/03/24 Analyzed: 10/04/24

Benzene	5.22	0.0250	5.00	ND	104	54-133	5.20	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	4.71	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	4.99	20	
o-Xylene	5.05	0.0250	5.00	ND	101	63-131	4.67	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	4.56	20	
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131	4.60	20	
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2024 4:00:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2440078-BLK1) Prepared: 10/03/24 Analyzed: 10/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		96.9	70-130			

LCS (2440078-BS2) Prepared: 10/03/24 Analyzed: 10/04/24

Gasoline Range Organics (C6-C10)	49.2	20.0	50.0		98.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			

Matrix Spike (2440078-MS2) Source: E410014-12 Prepared: 10/03/24 Analyzed: 10/04/24

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	97.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.3	70-130			

Matrix Spike Dup (2440078-MSD2) Source: E410014-12 Prepared: 10/03/24 Analyzed: 10/04/24

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.3	70-130	0.190	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/7/2024 4:00:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2440068-BLK1) Prepared: 10/03/24 Analyzed: 10/04/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.8		50.0		112	50-200			

LCS (2440068-BS1) Prepared: 10/03/24 Analyzed: 10/04/24

Diesel Range Organics (C10-C28)	285	25.0	250		114	38-132			
Surrogate: n-Nonane	58.7		50.0		117	50-200			

Matrix Spike (2440068-MS1) Source: E410014-04 Prepared: 10/03/24 Analyzed: 10/04/24

Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	54.6		50.0		109	50-200			

Matrix Spike Dup (2440068-MSD1) Source: E410014-04 Prepared: 10/03/24 Analyzed: 10/04/24

Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	6.80	20	
Surrogate: n-Nonane	51.9		50.0		104	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/7/2024 4:00:21PM
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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
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Blank (2440086-BLK1)					Prepared: 10/03/24 Analyzed: 10/03/24				
Chloride	ND	20.0							
LCS (2440086-BS1)					Prepared: 10/03/24 Analyzed: 10/03/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2440086-MS1)					Source: E410014-07		Prepared: 10/03/24 Analyzed: 10/03/24		
Chloride	251	20.0	250	ND	100	80-120			
Matrix Spike Dup (2440086-MSD1)					Source: E410014-07		Prepared: 10/03/24 Analyzed: 10/03/24		
Chloride	252	20.0	250	ND	101	80-120	0.315	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:	Grevey Com TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/07/24 16:00

- 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.



Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Grevey Com TB				Address: 3122 National Parks Hwy		E410614		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
1341	10-1-24	Soil	1	FS21 @ 2"		1						X					
1332	10-1-24	Soil	1	FS20 @ 2"		2						X					
1344	10-1-24	Soil	1	FS15 @ 2"		3						X					
1115	10-1-24	Soil	1	FS13 @ 2"		4						X					
1314	10-1-24	Soil	1	FS14 @ 2"		5						X					
1254	10-1-24	Soil	1	FS06 @ 2"		6						X					
1057	10-1-24	Soil	1	FS01 @ 2"		7						X					
1114	10-1-24	Soil	1	FS10 @ 2"		8						X					
1103	10-1-24	Soil	1	FS03 @ 2"		9						X					
1111	10-1-24	Soil	1	FS05 @ 2"		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Brandon Deal																	
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

Chain of Custody

Page 2 of 2

Client Information					Invoice Information			Lab Use Only				TAT				State											
Client: Matador Production Company					Company: Ensolum LLC			Lab WO#		Job Number		1D		2D		3D		Std		NM		CO		UT		TX	
Project: Grevey Com TB					Address: 3122 National Parks Hwy			E410014		23003-0002										x							
Project Manager: Ashley Giovengo					City, State, Zip: Carlsbad NM, 88220																						
Address: 3122 National Parks Hwy					Phone: 575-988-0055																						
City, State, Zip: Carlsbad NM, 88220					Email: agiovengo@ensolum.com																						
Phone: 575-988-0055					Miscellaneous:																						
Email: agiovengo@ensolum.com																											
Sample Information										Analysis and Method										EPA Program							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	Y	or	N	PWSID #	Remarks				
1101	10-1-24	Soil	1	FS 02 @ 2"		11						X															
1300	10-1-24	Soil	1	FS 12 @ 2"		12						X															
1257	10-1-24	Soil	1	FS 09 @ 2"		13						X															
1316	10-1-24	Soil	1	FS 07 @ 2"		14						X															
1111	10-1-24	Soil	1	FS 08 @ 2"		15						X															
1339	10-1-24	Soil	1	FS 26 @ 2"		16						X															
1113	10-1-24	Soil	1	FS 11 @ 2"		17						X															
1306	10-1-24	Soil	1	FS 04 @ 2"		18						X															
1324	10-1-24	Soil	1	FS 24 @ 2"		19						X															
1325	10-1-24	Soil	1	FS 25 @ 2"		20						X															
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: <u>Brandon Deal</u>																											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days															
<u>[Signature]</u>		10/02/2024		1400		<u>[Signature]</u>		10-2-24		1400		Lab Use Only															
<u>[Signature]</u>		10-2-24		1515		<u>[Signature]</u>		10-2-24		1210		Received on ice: <u>Y</u> / N															
<u>[Signature]</u>		10-1-24		20:46		<u>[Signature]</u>		10-3-24		0500		T1 _____ T2 _____ T3 _____															
<u>[Signature]</u>						<u>[Signature]</u>						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 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											



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Envirotech Analytical Laboratory

Printed: 10/3/2024 9:45:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	10/03/24 05:00	Work Order ID:	E410014
Phone:	(972) 371-5200	Date Logged In:	10/02/24 14:45	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	10/09/24 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



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Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: Grevey Com TB				Address: 3122 National Parks Hwy		E410014	23003-0002				x	x					
Project Manager: Ashley Gioveno				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agioveno@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agioveno@ensolum.com																	
Sample Information						Analysis and Method						EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/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
1341	10-1-24	Soil	1	FS21 @ 2" 0.5'		1						X					
1332	10-1-24	Soil	1	FS20 @ 2" 0.5'		2						X					
1344	10-1-24	Soil	1	FS15 @ 2" 0.5'		3						X					
1115	10-1-24	Soil	1	FS13 @ 2" 0.5'		4						X					
1314	10-1-24	Soil	1	FS14 @ 2" 0.5'		5						X					
1254	10-1-24	Soil	1	FS06 @ 2" 0.5'		6						Y					
1057	10-1-24	Soil	1	FS01 @ 2" 0.5'		7						X					
1114	10-1-24	Soil	1	FS10 @ 2" 0.5'		8						X					
1103	10-1-24	Soil	1	FS03 @ 2" 0.5'		9						X					
1111	10-1-24	Soil	1	FS05 @ 2" 0.5'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Brandon Deal																	
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.																	



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Chain of Custody

Client Information					Invoice Information		Lab Use Only		TAT				State						
Client: Matador Production Company					Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project: Grevey Com TB					Address: 3122 National Parks Hwy		E410014	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	EGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA		
																Compliance	Y	or	N
																PWSID #			
																Remarks			
1101	10-1-24	Soil	1	FS 02 @ 2" 0.5'		11						X							
1300	10-1-24	Soil	1	FS 12 @ 2" 0.5'		12						X							
1257	10-1-24	Soil	1	FS 09 @ 2" 0.5'		13						X							
1316	10-1-24	Soil	1	FS 07 @ 2" 0.5'		14						X							
1111	10-1-24	Soil	1	FS 08 @ 2" 0.5'		15						X							
1339	10-1-24	Soil	1	FS 26 @ 2" 0.5'		16						X							
1113	10-1-24	Soil	1	FS 11 @ 2" 0.5'		17						X							
1306	10-1-24	Soil	1	FS 04 @ 2" 0.5'		18						X							
1324	10-1-24	Soil	1	FS 24 @ 2" 0.5'		19						X							
1325	10-1-24	Soil	1	FS 25 @ 2" 0.5'		20						X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Brandon Deal																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



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Report to:

Ashley Giovengo



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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Grevey Com TB

Work Order: E410035

Job Number: 23003-0002

Received: 10/4/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/9/24

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

Date Reported: 10/9/24

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



Project Name: Grevey Com TB
Workorder: E410035
Date Received: 10/4/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/4/2024 8:00:00AM, under the Project Name: Grevey Com TB.

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

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/09/24 14:23
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS33 @ 0.5'	E410035-01A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS28 @ 1"	E410035-02A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS23 @ 0.5'	E410035-03A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS32 @ 0.5'	E410035-04A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS17 @ 0.5'	E410035-05A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS30 @ 0.5"	E410035-06A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS22 @ 0.5'	E410035-07A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS16 @ 0.5'	E410035-08A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS19 @ 0.5'	E410035-09A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS29 @ 1'	E410035-10A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS18 @ 0.5'	E410035-11A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.
FS31 @ 0.5'	E410035-12A	Soil	10/02/24	10/04/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:23:02PM
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FS33 @ 0.5'
E410035-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	102 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	97.3 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	102 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2440098	
Diesel Range Organics (C10-C28)	27.3	25.0	1	10/04/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/04/24	
Surrogate: n-Nonane	103 %	50-200		10/04/24	10/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2440103	
Chloride	511	20.0	1	10/04/24	10/04/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2024 2:23:02PM

FS28 @ 1"

E410035-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	95.2 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	103 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	95.2 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	103 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2440098
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/04/24	
Surrogate: n-Nonane	98.7 %	50-200		10/04/24	10/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2440103
Chloride	ND	20.0	1	10/04/24	10/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:23:02PM
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FS23 @ 0.5'
E410035-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	95.9 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	101 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	95.9 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	101 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2440098	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/04/24	
Surrogate: n-Nonane	101 %	50-200		10/04/24	10/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2440103	
Chloride	46.1	20.0	1	10/04/24	10/04/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2024 2:23:02PM

FS32 @ 0.5'

E410035-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	95.2 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	103 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	95.2 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	103 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2440098
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/05/24	
Surrogate: n-Nonane	102 %	50-200		10/04/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2440103
Chloride	250	20.0	1	10/04/24	10/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:23:02PM
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FS17 @ 0.5'
E410035-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	103 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	103 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2440098	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/05/24	
Surrogate: n-Nonane	103 %	50-200		10/04/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2440103	
Chloride	ND	20.0	1	10/04/24	10/04/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2024 2:23:02PM

FS30 @ 0.5"

E410035-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	102 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	102 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2440098
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/05/24	
Surrogate: n-Nonane	103 %	50-200		10/04/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2440103
Chloride	68.1	20.0	1	10/04/24	10/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:23:02PM
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FS22 @ 0.5'
E410035-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	102 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	96.3 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	102 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2440098	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/05/24	
Surrogate: n-Nonane	99.6 %	50-200		10/04/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2440103	
Chloride	25.7	20.0	1	10/04/24	10/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:23:02PM
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FS16 @ 0.5'
E410035-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	103 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	103 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2440098	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/05/24	
Surrogate: n-Nonane	98.5 %	50-200		10/04/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2440103	
Chloride	25.4	20.0	1	10/04/24	10/04/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/9/2024 2:23:02PM

FS19 @ 0.5'

E410035-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	103 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2440106
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	103 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2440098
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/05/24	
Surrogate: n-Nonane	101 %	50-200		10/04/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2440103
Chloride	ND	20.0	1	10/04/24	10/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:23:02PM
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FS29 @ 1'
E410035-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	99.9 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	99.7 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	99.9 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	99.7 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2440098	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/05/24	
Surrogate: n-Nonane	96.0 %	50-200		10/04/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2440103	
Chloride	41.8	20.0	1	10/04/24	10/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:23:02PM
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FS18 @ 0.5'
E410035-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	102 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	102 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2440098	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/05/24	
Surrogate: n-Nonane	99.6 %	50-200		10/04/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2440103	
Chloride	ND	20.0	1	10/04/24	10/04/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:23:02PM
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FS31 @ 0.5'
E410035-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Benzene	ND	0.0250	1	10/04/24	10/08/24	
Ethylbenzene	ND	0.0250	1	10/04/24	10/08/24	
Toluene	ND	0.0250	1	10/04/24	10/08/24	
o-Xylene	ND	0.0250	1	10/04/24	10/08/24	
p,m-Xylene	ND	0.0500	1	10/04/24	10/08/24	
Total Xylenes	ND	0.0250	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	100 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2440106	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/04/24	10/08/24	
Surrogate: Bromofluorobenzene	96.5 %	70-130		10/04/24	10/08/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/04/24	10/08/24	
Surrogate: Toluene-d8	100 %	70-130		10/04/24	10/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2440098	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/04/24	10/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/04/24	10/05/24	
Surrogate: n-Nonane	104 %	50-200		10/04/24	10/05/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2440103	
Chloride	20.4	20.0	1	10/04/24	10/04/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2024 2:23:02PM

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 (2440106-BLK1) Prepared: 10/04/24 Analyzed: 10/07/24

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	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

LCS (2440106-BS1) Prepared: 10/04/24 Analyzed: 10/07/24

Benzene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.49	0.0250	2.50		99.6	70-130			
Toluene	2.45	0.0250	2.50		97.9	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.22	0.0500	5.00		104	70-130			
Total Xylenes	7.82	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike (2440106-MS1) Source: E410034-04 Prepared: 10/04/24 Analyzed: 10/08/24

Benzene	2.53	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135			
Toluene	2.49	0.0250	2.50	ND	99.4	48-130			
o-Xylene	2.52	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.58	0.0250	7.50	ND	101	43-135			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike Dup (2440106-MSD1) Source: E410034-04 Prepared: 10/04/24 Analyzed: 10/08/24

Benzene	2.51	0.0250	2.50	ND	100	48-131	0.794	23	
Ethylbenzene	2.52	0.0250	2.50	ND	101	45-135	0.514	27	
Toluene	2.50	0.0250	2.50	ND	99.8	48-130	0.422	24	
o-Xylene	2.54	0.0250	2.50	ND	102	43-135	0.930	27	
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135	0.0988	27	
Total Xylenes	7.60	0.0250	7.50	ND	101	43-135	0.244	27	
Surrogate: Bromofluorobenzene	0.484		0.500		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2024 2:23:02PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2440106-BLK1) Prepared: 10/04/24 Analyzed: 10/07/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

LCS (2440106-BS2) Prepared: 10/04/24 Analyzed: 10/07/24

Gasoline Range Organics (C6-C10)	40.8	20.0	50.0		81.6	70-130			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

Matrix Spike (2440106-MS2) Source: E410034-04 Prepared: 10/04/24 Analyzed: 10/08/24

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike Dup (2440106-MSD2) Source: E410034-04 Prepared: 10/04/24 Analyzed: 10/08/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.4	70-130	2.03	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	0.520		0.500		104	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/9/2024 2:23:02PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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

Blank (2440098-BLK1)					Prepared: 10/04/24 Analyzed: 10/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	50-200			

LCS (2440098-BS1)					Prepared: 10/04/24 Analyzed: 10/04/24				
Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

Matrix Spike (2440098-MS1)					Source: E410034-04		Prepared: 10/04/24 Analyzed: 10/04/24		
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	57.2		50.0		114	50-200			

Matrix Spike Dup (2440098-MSD1)					Source: E410034-04		Prepared: 10/04/24 Analyzed: 10/04/24		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132	0.992	20	
Surrogate: n-Nonane	58.4		50.0		117	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/9/2024 2:23:02PM
---	---	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2440103-BLK1)					Prepared: 10/04/24 Analyzed: 10/04/24				
Chloride	ND	20.0							
LCS (2440103-BS1)					Prepared: 10/04/24 Analyzed: 10/04/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2440103-MS1)					Source: E410034-05		Prepared: 10/04/24 Analyzed: 10/04/24		
Chloride	938	200	250	700	95.3	80-120			
Matrix Spike Dup (2440103-MSD1)					Source: E410034-05		Prepared: 10/04/24 Analyzed: 10/04/24		
Chloride	936	200	250	700	94.5	80-120	0.219	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:	Grevey Com TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/09/24 14:23

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

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

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



Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT		State							
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		Job Number		NM CO UT TX							
Project: Grevey Com TB				Address: 3122 National Parks Hwy		E410035		230030002		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 900.0	BDQC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
1254	10-2-24	soil	1	FS 33 @ 2"		1						X					
1344	10-2-24	soil	1	FS 28 @ 1'		2						X					
1112	10-2-24	soil	1	FS 23 @ 2"		3						X					
1252	10-2-24	soil	1	FS 32 @ 2"		4						X					
1110	10-2-24	soil	1	FS 17 @ 2"		5						X					
1431	10-2-24	soil	1	FS 30 @ 0.5'		6						X					
1106	10-2-24	soil	1	FS 22 @ 2"		7						X					
1109	10-2-24	soil	1	FS 16 @ 2"		8						X					
1209	10-2-24	soil	1	FS 19 @ 2"		9						X					
1346	10-2-24	soil	1	FS 29 @ 1'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Brandon Deal Higinio Gonzalez																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed 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									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: (Y) / N									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



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Received by OCD: 11/7/2024 11:32:15 AM

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Page 179 of 262

Released to Imaging: 11/14/2024 11:59:10 AM

Page 2 of 2

Envirotech Analytical Laboratory

Printed: 10/4/2024 10:00:14AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	10/04/24 08:00	Work Order ID:	E410035
Phone:	(972) 371-5200	Date Logged In:	10/03/24 16:32	Logged In By:	Raina Schwanz
Email:	agiovngo@ensolum.com	Due Date:	10/10/24 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.

Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project: Grevey Com TB				Address: 3122 National Parks Hwy		E410035	230030002				X	X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/QRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 900.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
																		Compliance Y or N
																		PWSID #
																		Remarks
1254	10-2-24	soil	1	FS 33 @ 2" 0.5'		1						X						Name changes per C. Burton 10/7/24 - RAB
1344	10-2-24	soil	1	FS 28 @ 1'		2						X						
1112	10-2-24	soil	1	FS 23 @ 2" 0.5'		3						X						
1252	10-2-24	soil	1	FS 32 @ 2" 0.5'		4						X						
1110	10-2-24	soil	1	FS 17 @ 2" 0.5'		5						X						
1431	10-2-24	soil	1	FS 30 @ 0.5'		6						X						
1106	10-2-24	soil	1	FS 22 @ 2" 0.5'		7						X						
1109	10-2-24	soil	1	FS 16 @ 2" 0.5'		8						X						
1209	10-2-24	soil	1	FS 19 @ 2" 0.5'		9						X						
1346	10-2-24	soil	1	FS 29 @ 1'		10						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Brandon Deal Higinio Gonzalez																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed 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.																		



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Chain of Custody

Page 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State							
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX							
Project: Grevey Com TB				Address: 3122 National Parks Hwy		E 410035		Job Number				23603-0002							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220								x							
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information										Analysis and Method						EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRQ/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA		
1108	10-2-24	Soil	1	FS18 @ 2" 0.5'		11						X							
1249	10-2-24	Soil	1	FS31 @ 2" 0.5'		12						X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Brandon Deal Higini Gonzalez																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: Y / N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C 4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



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Report to:

Ashley Giovengo



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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Grevey Com TB

Work Order: E410047

Job Number: 23003-0002

Received: 10/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/8/24

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: 10/8/24

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



Project Name: Grevey Com TB
Workorder: E410047
Date Received: 10/7/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/7/2024 5:00:00AM, under the Project Name: Grevey Com TB.

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

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/08/24 15:15
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS35 - 3.5'	E410047-01A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
FS43 - 0.5'	E410047-02A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
FS44 - 0.5'	E410047-03A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
FS45 - 0.5'	E410047-04A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
FS46 - 2'	E410047-05A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.
SW01 - 0-2'	E410047-06A	Soil	10/03/24	10/07/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2024 3:15:09PM
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FS35 - 3.5'

E410047-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Benzene	ND	0.0250	1	10/07/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/07/24	
Toluene	ND	0.0250	1	10/07/24	10/07/24	
o-Xylene	ND	0.0250	1	10/07/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID	99.6 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.3 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2441004	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/08/24	
Surrogate: n-Nonane	106 %	50-200		10/07/24	10/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2441002	
Chloride	ND	20.0	1	10/07/24	10/07/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/8/2024 3:15:09PM

FS43 - 0.5'

E410047-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Benzene	ND	0.0250	1	10/07/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/07/24	
Toluene	ND	0.0250	1	10/07/24	10/07/24	
o-Xylene	ND	0.0250	1	10/07/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/07/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441004	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/08/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		10/07/24	10/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441002	
Chloride	45.5	20.0	1	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2024 3:15:09PM
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FS44 - 0.5'
E410047-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Benzene	ND	0.0250	1	10/07/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/07/24	
Toluene	ND	0.0250	1	10/07/24	10/07/24	
o-Xylene	ND	0.0250	1	10/07/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID	97.8 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.1 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2441004	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/08/24	
Surrogate: n-Nonane	107 %	50-200		10/07/24	10/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2441002	
Chloride	32.0	20.0	1	10/07/24	10/07/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/8/2024 3:15:09PM

FS45 - 0.5'

E410047-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Benzene	ND	0.0250	1	10/07/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/07/24	
Toluene	ND	0.0250	1	10/07/24	10/07/24	
o-Xylene	ND	0.0250	1	10/07/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/07/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	100 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.1 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441004	
Diesel Range Organics (C10-C28)	58.3	25.0	1	10/07/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/08/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		10/07/24	10/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441002	
Chloride	24.0	20.0	1	10/07/24	10/07/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2024 3:15:09PM
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FS46 - 2'

E410047-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Benzene	ND	0.0250	1	10/07/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/07/24	
Toluene	ND	0.0250	1	10/07/24	10/07/24	
o-Xylene	ND	0.0250	1	10/07/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/07/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/07/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.8 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2441004	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/08/24	
Surrogate: n-Nonane	99.8 %	50-200		10/07/24	10/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2441002	
Chloride	799	20.0	1	10/07/24	10/07/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/8/2024 3:15:09PM

SW01 - 0-2'

E410047-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Benzene	ND	0.0250	1	10/07/24	10/07/24	
Ethylbenzene	ND	0.0250	1	10/07/24	10/07/24	
Toluene	ND	0.0250	1	10/07/24	10/07/24	
o-Xylene	ND	0.0250	1	10/07/24	10/07/24	
p,m-Xylene	ND	0.0500	1	10/07/24	10/07/24	
Total Xylenes	ND	0.0250	1	10/07/24	10/07/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2441007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/07/24	10/07/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		10/07/24	10/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2441004	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/07/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/07/24	10/08/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		10/07/24	10/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441002	
Chloride	269	20.0	1	10/07/24	10/07/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/8/2024 3:15:09PM

Volatile Organics by EPA 8021B

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 (2441007-BLK1) Prepared: 10/07/24 Analyzed: 10/07/24

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	8.15		8.00		102	70-130			

LCS (2441007-BS1) Prepared: 10/07/24 Analyzed: 10/07/24

Benzene	5.44	0.0250	5.00		109	70-130			
Ethylbenzene	5.36	0.0250	5.00		107	70-130			
Toluene	5.43	0.0250	5.00		109	70-130			
o-Xylene	5.37	0.0250	5.00		107	70-130			
p,m-Xylene	10.9	0.0500	10.0		109	70-130			
Total Xylenes	16.3	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			

LCS Dup (2441007-BSD1) Prepared: 10/07/24 Analyzed: 10/07/24

Benzene	4.57	0.0250	5.00		91.5	70-130	17.4	20	
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130	17.5	20	
Toluene	4.56	0.0250	5.00		91.2	70-130	17.5	20	
o-Xylene	4.50	0.0250	5.00		89.9	70-130	17.7	20	
p,m-Xylene	9.18	0.0500	10.0		91.8	70-130	17.2	20	
Total Xylenes	13.7	0.0250	15.0		91.2	70-130	17.4	20	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/8/2024 3:15:09PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2441007-BLK1) Prepared: 10/07/24 Analyzed: 10/07/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			

LCS (2441007-BS2) Prepared: 10/07/24 Analyzed: 10/07/24

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			

LCS Dup (2441007-BSD2) Prepared: 10/07/24 Analyzed: 10/07/24

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130	7.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/8/2024 3:15:09PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2441004-BLK1)					Prepared: 10/07/24 Analyzed: 10/07/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.5		50.0		98.9	50-200			

LCS (2441004-BS1)					Prepared: 10/07/24 Analyzed: 10/07/24				
Diesel Range Organics (C10-C28)	297	25.0	250		119	38-132			
Surrogate: n-Nonane	52.1		50.0		104	50-200			

Matrix Spike (2441004-MS1)					Source: E410047-01		Prepared: 10/07/24 Analyzed: 10/07/24		
Diesel Range Organics (C10-C28)	312	25.0	250	ND	125	38-132			
Surrogate: n-Nonane	56.1		50.0		112	50-200			

Matrix Spike Dup (2441004-MSD1)					Source: E410047-01		Prepared: 10/07/24 Analyzed: 10/07/24		
Diesel Range Organics (C10-C28)	304	25.0	250	ND	122	38-132	2.59	20	
Surrogate: n-Nonane	54.1		50.0		108	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/8/2024 3:15:09PM
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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
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Blank (2441002-BLK1)					Prepared: 10/07/24 Analyzed: 10/07/24				
Chloride	ND	20.0							
LCS (2441002-BS1)					Prepared: 10/07/24 Analyzed: 10/07/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2441002-MS1)					Source: E410041-01		Prepared: 10/07/24 Analyzed: 10/07/24		
Chloride	386	200	250	ND	154	80-120			M6
Matrix Spike Dup (2441002-MSD1)					Source: E410041-01		Prepared: 10/07/24 Analyzed: 10/07/24		
Chloride	390	200	250	ND	156	80-120	1.09	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:	Grevey Com TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/08/24 15:15

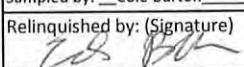
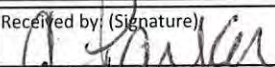
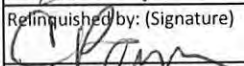
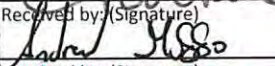
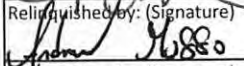
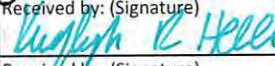
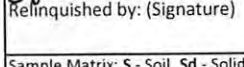
- M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the 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.



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: Grevey Com TB				Address: 3122 National Parks Hwy				E410047		280030002								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										
10:04	10/3/2024	S	1	FS35 - 3.5'		1						X															
14:32	10/3/2024	S	1	FS43 - 0.5'		2						X															
14:34	10/3/2024	S	1	FS44 - 0.5'		3						X															
14:28	10/3/2024	S	1	FS45 - 0.5'		4						X															
14:09	10/3/2024	S	1	FS46 - 2'		5						X															
13:52	10/3/2024	S	1	SW01 - 0-2'		6						X															
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: Cole Burton																											
Relinquished by: (Signature)		Date		Time		Received 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.									
		10/4/24		7:30				10.4.24		1245								Lab Use Only									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N									
		10.4.24		1430				10.4.24		1600																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 _____ T2 _____ T3 _____									
		10.4.24		2230				10.7.24		0500																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C 4									
																											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																											
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											



envirotech

Envirotech Analytical Laboratory

Printed: 10/7/2024 8:55:01AM

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:	10/07/24 05:00	Work Order ID:	E410047
Phone:	(972) 371-5200	Date Logged In:	10/04/24 13:52	Logged In By:	Raina Schwanz
Email:	agiovngo@ensolum.com	Due Date:	10/11/24 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.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Grevey Com TB

Work Order: E410061

Job Number: 23003-0002

Received: 10/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/14/24

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: 10/14/24

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



Project Name: Grevey Com TB
Workorder: E410061
Date Received: 10/8/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/8/2024 8:00:00AM, under the Project Name: Grevey Com TB.

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

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/14/24 12:16
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW02 @ 0-0.5'	E410061-01A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
FS27 @ 2'	E410061-02A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
FS38 @ 2'	E410061-03A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
BH11 @ 4'	E410061-04A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
SW03 @ 0-3'	E410061-05A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
FS34 @ 3'	E410061-06A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
FS39 @ 0.5-1'	E410061-07A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
BH11 @ 6'	E410061-08A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
SW04 @ 0-3'	E410061-09A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
FS40 @ 0.5'	E410061-10A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
FS36 @ 3'	E410061-11A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
FS42 @ 0.5'	E410061-12A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
FS37 @ 0.5'	E410061-13A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
FS41 @ 0.5'	E410061-14A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.
FS47 @ 0.5'	E410061-15A	Soil	10/04/24	10/08/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2024 12:16:40PM

SW02 @ 0-0.5'

E410061-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Benzene	ND	0.0250	1	10/08/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/08/24	10/09/24	
Toluene	ND	0.0250	1	10/08/24	10/09/24	
o-Xylene	ND	0.0250	1	10/08/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/08/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		110 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		118 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		110 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2441022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/24	10/08/24	
Surrogate: n-Nonane		90.2 %	50-200	10/08/24	10/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2441027
Chloride	ND	20.0	1	10/08/24	10/08/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2024 12:16:40PM

FS27 @ 2'

E410061-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Benzene	ND	0.0250	1	10/08/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/08/24	10/09/24	
Toluene	ND	0.0250	1	10/08/24	10/09/24	
o-Xylene	ND	0.0250	1	10/08/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/08/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		111 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		111 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2441022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/24	10/08/24	
Surrogate: n-Nonane		89.3 %	50-200	10/08/24	10/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2441027
Chloride	190	20.0	1	10/08/24	10/08/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/14/2024 12:16:40PM
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FS38 @ 2'
E410061-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2441024	
Benzene	ND	0.0250	1	10/08/24	10/09/24	
Ethylbenzene	1.33	0.0250	1	10/08/24	10/09/24	
Toluene	0.492	0.0250	1	10/08/24	10/09/24	
o-Xylene	4.05	0.0250	1	10/08/24	10/09/24	
p,m-Xylene	8.30	0.0500	1	10/08/24	10/09/24	
Total Xylenes	12.4	0.0250	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene	116 %	70-130		10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		10/08/24	10/09/24	
Surrogate: Toluene-d8	115 %	70-130		10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2441024	
Gasoline Range Organics (C6-C10)	177	20.0	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene	116 %	70-130		10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		10/08/24	10/09/24	
Surrogate: Toluene-d8	115 %	70-130		10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2441022	
Diesel Range Organics (C10-C28)	1270	25.0	1	10/08/24	10/08/24	
Oil Range Organics (C28-C36)	377	50.0	1	10/08/24	10/08/24	
Surrogate: n-Nonane	114 %	50-200		10/08/24	10/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441027	
Chloride	752	20.0	1	10/08/24	10/08/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2024 12:16:40PM

BH11 @ 4'

E410061-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Benzene	ND	0.0250	1	10/08/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/08/24	10/09/24	
Toluene	ND	0.0250	1	10/08/24	10/09/24	
o-Xylene	ND	0.0250	1	10/08/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/08/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		120 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		110 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		120 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		110 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2441022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/24	10/08/24	
Surrogate: n-Nonane		84.4 %	50-200	10/08/24	10/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2441027
Chloride	1540	20.0	1	10/08/24	10/08/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2024 12:16:40PM

SW03 @ 0-3'

E410061-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Benzene	ND	0.0250	1	10/08/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/08/24	10/09/24	
Toluene	ND	0.0250	1	10/08/24	10/09/24	
o-Xylene	ND	0.0250	1	10/08/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/08/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		110 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		110 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2441022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/24	10/08/24	
Surrogate: n-Nonane		86.7 %	50-200	10/08/24	10/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2441027
Chloride	27.2	20.0	1	10/08/24	10/08/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2024 12:16:40PM

FS34 @ 3'

E410061-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Benzene	ND	0.0250	1	10/08/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/08/24	10/09/24	
Toluene	ND	0.0250	1	10/08/24	10/09/24	
o-Xylene	ND	0.0250	1	10/08/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/08/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		110 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		110 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2441022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/24	10/08/24	
Surrogate: n-Nonane		86.2 %	50-200	10/08/24	10/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2441027
Chloride	211	20.0	1	10/08/24	10/08/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/14/2024 12:16:40PM
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FS39 @ 0.5-1'
E410061-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2441024	
Benzene	ND	0.0250	1	10/08/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/08/24	10/09/24	
Toluene	ND	0.0250	1	10/08/24	10/09/24	
o-Xylene	ND	0.0250	1	10/08/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/08/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		111 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2441024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		111 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2441022	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/24	10/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/24	10/08/24	
Surrogate: n-Nonane		76.3 %	50-200	10/08/24	10/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441027	
Chloride	146	20.0	1	10/08/24	10/08/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/14/2024 12:16:40PM
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BH11 @ 6'
E410061-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2441024	
Benzene	ND	0.0250	1	10/08/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/08/24	10/09/24	
Toluene	ND	0.0250	1	10/08/24	10/09/24	
o-Xylene	ND	0.0250	1	10/08/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/08/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		111 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2441024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		116 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		111 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2441022	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/24	10/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/24	10/09/24	
Surrogate: n-Nonane		82.6 %	50-200	10/08/24	10/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441027	
Chloride	56.8	20.0	1	10/08/24	10/08/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2024 12:16:40PM

SW04 @ 0-3'

E410061-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Benzene	ND	0.0250	1	10/08/24	10/09/24	
Ethylbenzene	ND	0.0250	1	10/08/24	10/09/24	
Toluene	ND	0.0250	1	10/08/24	10/09/24	
o-Xylene	ND	0.0250	1	10/08/24	10/09/24	
p,m-Xylene	ND	0.0500	1	10/08/24	10/09/24	
Total Xylenes	ND	0.0250	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		110 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/24	10/09/24	
Surrogate: Bromofluorobenzene		113 %	70-130	10/08/24	10/09/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/08/24	10/09/24	
Surrogate: Toluene-d8		110 %	70-130	10/08/24	10/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2441022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/24	10/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/24	10/09/24	
Surrogate: n-Nonane		92.1 %	50-200	10/08/24	10/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2441027
Chloride	154	20.0	1	10/08/24	10/08/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2024 12:16:40PM

FS40 @ 0.5'

E410061-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Benzene	ND	0.0250	1	10/08/24	10/10/24	
Ethylbenzene	ND	0.0250	1	10/08/24	10/10/24	
Toluene	ND	0.0250	1	10/08/24	10/10/24	
o-Xylene	ND	0.0250	1	10/08/24	10/10/24	
p,m-Xylene	ND	0.0500	1	10/08/24	10/10/24	
Total Xylenes	ND	0.0250	1	10/08/24	10/10/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/08/24	10/10/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	10/08/24	10/10/24	
Surrogate: Toluene-d8		109 %	70-130	10/08/24	10/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/24	10/10/24	
Surrogate: Bromofluorobenzene		114 %	70-130	10/08/24	10/10/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	10/08/24	10/10/24	
Surrogate: Toluene-d8		109 %	70-130	10/08/24	10/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2441022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/24	10/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/24	10/09/24	
Surrogate: n-Nonane		91.9 %	50-200	10/08/24	10/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2441027
Chloride	208	20.0	1	10/08/24	10/08/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2024 12:16:40PM

FS36 @ 3'

E410061-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Benzene	ND	0.0250	1	10/08/24	10/10/24	
Ethylbenzene	ND	0.0250	1	10/08/24	10/10/24	
Toluene	ND	0.0250	1	10/08/24	10/10/24	
o-Xylene	ND	0.0250	1	10/08/24	10/10/24	
p,m-Xylene	ND	0.0500	1	10/08/24	10/10/24	
Total Xylenes	ND	0.0250	1	10/08/24	10/10/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/08/24	10/10/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	10/08/24	10/10/24	
Surrogate: Toluene-d8		109 %	70-130	10/08/24	10/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/24	10/10/24	
Surrogate: Bromofluorobenzene		115 %	70-130	10/08/24	10/10/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	10/08/24	10/10/24	
Surrogate: Toluene-d8		109 %	70-130	10/08/24	10/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2441022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/24	10/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/24	10/09/24	
Surrogate: n-Nonane		86.9 %	50-200	10/08/24	10/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2441027
Chloride	96.7	20.0	1	10/08/24	10/08/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2024 12:16:40PM

FS42 @ 0.5'

E410061-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Benzene	ND	0.0250	1	10/08/24	10/10/24	
Ethylbenzene	ND	0.0250	1	10/08/24	10/10/24	
Toluene	ND	0.0250	1	10/08/24	10/10/24	
o-Xylene	ND	0.0250	1	10/08/24	10/10/24	
p,m-Xylene	ND	0.0500	1	10/08/24	10/10/24	
Total Xylenes	ND	0.0250	1	10/08/24	10/10/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/08/24	10/10/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	10/08/24	10/10/24	
Surrogate: Toluene-d8		109 %	70-130	10/08/24	10/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/08/24	10/10/24	
Surrogate: Bromofluorobenzene		117 %	70-130	10/08/24	10/10/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	10/08/24	10/10/24	
Surrogate: Toluene-d8		109 %	70-130	10/08/24	10/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2441022
Diesel Range Organics (C10-C28)	ND	25.0	1	10/08/24	10/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/08/24	10/09/24	
Surrogate: n-Nonane		89.8 %	50-200	10/08/24	10/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2441027
Chloride	64.2	20.0	1	10/08/24	10/08/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/14/2024 12:16:40PM
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FS37 @ 0.5'

E410061-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Benzene	ND	0.250	10	10/08/24	10/10/24	
Ethylbenzene	8.50	0.250	10	10/08/24	10/10/24	
Toluene	5.96	0.250	10	10/08/24	10/10/24	
o-Xylene	26.3	0.250	10	10/08/24	10/10/24	
p,m-Xylene	64.5	0.500	10	10/08/24	10/10/24	
Total Xylenes	90.8	0.250	10	10/08/24	10/10/24	
Surrogate: Bromofluorobenzene	122 %	70-130		10/08/24	10/10/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		10/08/24	10/10/24	
Surrogate: Toluene-d8	107 %	70-130		10/08/24	10/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Gasoline Range Organics (C6-C10)	907	200	10	10/08/24	10/10/24	
Surrogate: Bromofluorobenzene	122 %	70-130		10/08/24	10/10/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		10/08/24	10/10/24	
Surrogate: Toluene-d8	107 %	70-130		10/08/24	10/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2441022
Diesel Range Organics (C10-C28)	9670	25.0	1	10/08/24	10/09/24	
Oil Range Organics (C28-C36)	2980	50.0	1	10/08/24	10/09/24	
Surrogate: n-Nonane	170 %	50-200		10/08/24	10/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2441027
Chloride	2160	40.0	2	10/08/24	10/08/24	



Sample Data

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

Project Name: Grevey Com TB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
10/14/2024 12:16:40PM

FS41 @ 0.5'

E410061-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Benzene	ND	0.0500	2	10/08/24	10/10/24	
Ethylbenzene	0.266	0.0500	2	10/08/24	10/10/24	
Toluene	0.0600	0.0500	2	10/08/24	10/10/24	
o-Xylene	0.997	0.0500	2	10/08/24	10/10/24	
p,m-Xylene	0.171	0.100	2	10/08/24	10/10/24	
Total Xylenes	1.17	0.0500	2	10/08/24	10/10/24	
Surrogate: Bromofluorobenzene		125 %	70-130	10/08/24	10/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	10/08/24	10/10/24	
Surrogate: Toluene-d8		108 %	70-130	10/08/24	10/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2441024
Gasoline Range Organics (C6-C10)	95.5	40.0	2	10/08/24	10/10/24	
Surrogate: Bromofluorobenzene		125 %	70-130	10/08/24	10/10/24	
Surrogate: 1,2-Dichloroethane-d4		93.7 %	70-130	10/08/24	10/10/24	
Surrogate: Toluene-d8		108 %	70-130	10/08/24	10/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2441022
Diesel Range Organics (C10-C28)	1490	25.0	1	10/08/24	10/11/24	
Oil Range Organics (C28-C36)	594	50.0	1	10/08/24	10/11/24	
Surrogate: n-Nonane		120 %	50-200	10/08/24	10/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2441027
Chloride	982	40.0	2	10/08/24	10/08/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/14/2024 12:16:40PM
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FS47 @ 0.5'
E410061-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2441024	
Benzene	ND	0.0250	1	10/08/24	10/10/24	
Ethylbenzene	0.0835	0.0250	1	10/08/24	10/10/24	
Toluene	0.0475	0.0250	1	10/08/24	10/10/24	
o-Xylene	0.298	0.0250	1	10/08/24	10/10/24	
p,m-Xylene	0.591	0.0500	1	10/08/24	10/10/24	
Total Xylenes	0.888	0.0250	1	10/08/24	10/10/24	
Surrogate: Bromofluorobenzene	121 %	70-130		10/08/24	10/10/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		10/08/24	10/10/24	
Surrogate: Toluene-d8	110 %	70-130		10/08/24	10/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2441024	
Gasoline Range Organics (C6-C10)	38.4	20.0	1	10/08/24	10/10/24	
Surrogate: Bromofluorobenzene	121 %	70-130		10/08/24	10/10/24	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		10/08/24	10/10/24	
Surrogate: Toluene-d8	110 %	70-130		10/08/24	10/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2441022	
Diesel Range Organics (C10-C28)	1710	25.0	1	10/08/24	10/11/24	
Oil Range Organics (C28-C36)	596	50.0	1	10/08/24	10/11/24	
Surrogate: n-Nonane	106 %	50-200		10/08/24	10/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2441027	
Chloride	4780	100	5	10/08/24	10/08/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported: 10/14/2024 12:16:40PM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2441024-BLK1) Prepared: 10/08/24 Analyzed: 10/09/24

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	0.578		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2441024-BS1) Prepared: 10/08/24 Analyzed: 10/09/24

Benzene	2.50	0.0250	2.50		100	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.7	70-130			
Toluene	2.51	0.0250	2.50		100	70-130			
o-Xylene	2.54	0.0250	2.50		101	70-130			
p,m-Xylene	5.05	0.0500	5.00		101	70-130			
Total Xylenes	7.59	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.586		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.553		0.500		111	70-130			

Matrix Spike (2441024-MS1) Source: E410061-08 Prepared: 10/08/24 Analyzed: 10/09/24

Benzene	2.62	0.0250	2.50	ND	105	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.61	0.0250	2.50	ND	104	43-135			
p,m-Xylene	5.27	0.0500	5.00	ND	105	43-135			
Total Xylenes	7.88	0.0250	7.50	ND	105	43-135			
Surrogate: Bromofluorobenzene	0.584		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			

Matrix Spike Dup (2441024-MSD1) Source: E410061-08 Prepared: 10/08/24 Analyzed: 10/09/24

Benzene	2.56	0.0250	2.50	ND	102	48-131	2.36	23	
Ethylbenzene	2.50	0.0250	2.50	ND	99.9	45-135	3.08	27	
Toluene	2.55	0.0250	2.50	ND	102	48-130	2.81	24	
o-Xylene	2.59	0.0250	2.50	ND	104	43-135	0.615	27	
p,m-Xylene	5.19	0.0500	5.00	ND	104	43-135	1.61	27	
Total Xylenes	7.78	0.0250	7.50	ND	104	43-135	1.28	27	
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		93.9	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported: 10/14/2024 12:16:40PM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2441024-BLK1) Prepared: 10/08/24 Analyzed: 10/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.578		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2441024-BS2) Prepared: 10/08/24 Analyzed: 10/09/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130			
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		91.0	70-130			
Surrogate: Toluene-d8	0.563		0.500		113	70-130			

Matrix Spike (2441024-MS2) Source: E410061-08 Prepared: 10/08/24 Analyzed: 10/09/24

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	88.9	70-130			
Surrogate: Bromofluorobenzene	0.588		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.5	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			

Matrix Spike Dup (2441024-MSD2) Source: E410061-08 Prepared: 10/08/24 Analyzed: 10/09/24

Gasoline Range Organics (C6-C10)	44.0	20.0	50.0	ND	87.9	70-130	1.11	20	
Surrogate: Bromofluorobenzene	0.588		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.567		0.500		113	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2024 12:16:40PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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

Blank (2441022-BLK1)					Prepared: 10/08/24 Analyzed: 10/08/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.3		50.0		90.7	50-200			

LCS (2441022-BS1)					Prepared: 10/08/24 Analyzed: 10/08/24				
Diesel Range Organics (C10-C28)	244	25.0	250		97.8	38-132			
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			

Matrix Spike (2441022-MS1)					Source: E410061-03		Prepared: 10/08/24 Analyzed: 10/08/24		
Diesel Range Organics (C10-C28)	1310	25.0	250	1270	14.5	38-132			M4
Surrogate: n-Nonane	56.1		50.0		112	50-200			

Matrix Spike Dup (2441022-MSD1)					Source: E410061-03		Prepared: 10/08/24 Analyzed: 10/08/24		
Diesel Range Organics (C10-C28)	1400	25.0	250	1270	52.1	38-132	6.93	20	
Surrogate: n-Nonane	58.4		50.0		117	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/2024 12:16:40PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2441027-BLK1)					Prepared: 10/08/24 Analyzed: 10/08/24				
Chloride	ND	20.0							
LCS (2441027-BS1)					Prepared: 10/08/24 Analyzed: 10/08/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2441027-MS1)					Source: E410061-03		Prepared: 10/08/24 Analyzed: 10/08/24		
Chloride	1040	20.0	250	752	115	80-120			
Matrix Spike Dup (2441027-MSD1)					Source: E410061-03		Prepared: 10/08/24 Analyzed: 10/08/24		
Chloride	1040	20.0	250	752	114	80-120	0.104	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:	Grevey Com TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/14/24 12:16

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

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

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



Chain of Custody

Page 1 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E410061		Job Number 2303.002		1D	2D	3D	Std	NM	CO	UT	TX
Project: Grevey Com TB				Address: 3122 National Parks Hwy									X	X			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
11:40	10/4/2024	Soil	1	SW02 @ 0-0.5'		1						X					
14:02	10/4/2024	Soil	1	FS27 @ 2'		2						X					
12:00	10/4/2024	Soil	1	FS38 @ 2'		3						X					
11:02	10/4/2024	Soil	1	BH11 @ 4'		4						X					
10:46	10/4/2024	Soil	1	SW03 @ 0-3'		5						X					
12:44	10/4/2024	Soil	1	FS34 @ 3'		6						X					
14:16	10/4/2024	Soil	1	FS39 @ 0.5-1'		7						X					
11:48	10/4/2024	Soil	1	BH11 @ 6'		8						X					
11:45	10/4/2024	Soil	1	SW04 @ 0-3'		9						X					
10:00	10/4/2024	Soil	1	FS40 @ 0.5'		10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Chad Hamilton High 10 Can Zuer																	
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.									
		10-7-24	0700	Michelle Gonzales		10-7-24	0700										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only									
		10-7-24	1720			10-7-24	1825	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						
		10-7-24	2059	Caitlin Mann		10/8/24	8:00										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C									
								4									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



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Envirotech Analytical Laboratory

Printed: 10/8/2024 11:53:52AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	10/08/24 08:00	Work Order ID:	E410061
Phone:	(972) 371-5200	Date Logged In:	10/08/24 08:10	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	10/14/24 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: 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: Grevey Com TB

Work Order: E410239

Job Number: 23003-0002

Received: 10/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/24/24

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: 10/24/24

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



Project Name: Grevey Com TB
Workorder: E410239
Date Received: 10/22/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/22/2024 7:45:00AM, under the Project Name: Grevey Com TB.

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

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

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

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

Respectfully,

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/24/24 11:05

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS46 - 2.5'	E410239-01A	Soil	10/18/24	10/22/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Grevey Com TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 10/24/2024 11:05:08AM
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FS46 - 2.5'
E410239-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2443028	
Benzene	ND	0.0250	1	10/22/24	10/23/24	
Ethylbenzene	ND	0.0250	1	10/22/24	10/23/24	
Toluene	ND	0.0250	1	10/22/24	10/23/24	
o-Xylene	ND	0.0250	1	10/22/24	10/23/24	
p,m-Xylene	ND	0.0500	1	10/22/24	10/23/24	
Total Xylenes	ND	0.0250	1	10/22/24	10/23/24	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2443028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/24	10/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.8 %	70-130		10/22/24	10/23/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2443030	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/24	10/22/24	
Surrogate: n-Nonane	92.7 %	50-200		10/22/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2443043	
Chloride	68.4	20.0	1	10/22/24	10/22/24	

QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/24/2024 11:05:08AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443028-BLK1) Prepared: 10/22/24 Analyzed: 10/22/24

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	8.12		8.00		101	70-130			

LCS (2443028-BS1) Prepared: 10/22/24 Analyzed: 10/22/24

Benzene	4.10	0.0250	5.00		81.9	70-130			
Ethylbenzene	3.96	0.0250	5.00		79.2	70-130			
Toluene	4.05	0.0250	5.00		81.0	70-130			
o-Xylene	3.97	0.0250	5.00		79.4	70-130			
p,m-Xylene	8.08	0.0500	10.0		80.8	70-130			
Total Xylenes	12.1	0.0250	15.0		80.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	70-130			

Matrix Spike (2443028-MS1) Source: E410238-07 Prepared: 10/22/24 Analyzed: 10/23/24

Benzene	5.43	0.0250	5.00	ND	109	54-133			
Ethylbenzene	5.30	0.0250	5.00	ND	106	61-133			
Toluene	5.39	0.0250	5.00	ND	108	61-130			
o-Xylene	5.33	0.0250	5.00	ND	107	63-131			
p,m-Xylene	10.8	0.0500	10.0	ND	108	63-131			
Total Xylenes	16.1	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			

Matrix Spike Dup (2443028-MSD1) Source: E410238-07 Prepared: 10/22/24 Analyzed: 10/22/24

Benzene	5.21	0.0250	5.00	ND	104	54-133	4.10	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	4.37	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	4.34	20	
o-Xylene	5.10	0.0250	5.00	ND	102	63-131	4.35	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	4.44	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	4.41	20	
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/24/2024 11:05:08AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443028-BLK1) Prepared: 10/22/24 Analyzed: 10/22/24

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

LCS (2443028-BS2) Prepared: 10/22/24 Analyzed: 10/22/24

Gasoline Range Organics (C6-C10)	35.0	20.0	50.0		70.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

Matrix Spike (2443028-MS2) Source: E410238-07 Prepared: 10/22/24 Analyzed: 10/23/24

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0	ND	86.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

Matrix Spike Dup (2443028-MSD2) Source: E410238-07 Prepared: 10/22/24 Analyzed: 10/22/24

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0	ND	80.9	70-130	6.39	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/24/2024 11:05:08AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2443030-BLK1) Prepared: 10/22/24 Analyzed: 10/22/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

LCS (2443030-BS1) Prepared: 10/22/24 Analyzed: 10/22/24

Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

Matrix Spike (2443030-MS1) Source: E410239-01 Prepared: 10/22/24 Analyzed: 10/22/24

Diesel Range Organics (C10-C28)	286	25.0	250	ND	114	38-132			
Surrogate: n-Nonane	50.6		50.0		101	50-200			

Matrix Spike Dup (2443030-MSD1) Source: E410239-01 Prepared: 10/22/24 Analyzed: 10/22/24

Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132	5.75	20	
Surrogate: n-Nonane	49.1		50.0		98.3	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Grevey Com TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/24/2024 11:05:08AM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2443043-BLK1)					Prepared: 10/22/24 Analyzed: 10/22/24				
Chloride	ND	20.0							
LCS (2443043-BS1)					Prepared: 10/22/24 Analyzed: 10/22/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2443043-MS1)					Source: E410238-04		Prepared: 10/22/24 Analyzed: 10/22/24		
Chloride	265	20.0	250	ND	106	80-120			
Matrix Spike Dup (2443043-MSD1)					Source: E410238-04		Prepared: 10/22/24 Analyzed: 10/22/24		
Chloride	266	20.0	250	ND	107	80-120	0.517	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:	Grevey Com TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/24/24 11:05

- 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.



Page 1 of 1

**envirotec**

Envirotech Analytical Laboratory

Printed: 10/22/2024 11:05:09AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	10/22/24 07:45	Work Order ID:	E410239
Phone:	(972) 371-5200	Date Logged In:	10/21/24 16:27	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	10/28/24 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 E

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 366750

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 366750
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420059937
Incident Name	NAPP2420059937 GREVEY COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Grevey Com TB
Date Release Discovered	07/18/2024
Surface Owner	Private

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	3,200
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	07/26/2024
Time liner inspection will commence	09:30 AM
Please provide any information necessary for observers to liner inspection	Tank Containment
Please provide any information necessary for navigation to liner inspection site	32.033410,-103.396000

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 366750

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 366750
	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.	7/24/2024

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

QUESTIONS

Action 386950

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386950
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420059937
Incident Name	NAPP2420059937 GREVEY COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Grevey Com TB
Date Release Discovered	07/18/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	7,967
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/30/2024
Time sampling will commence	09:30 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.033410,-103.396000

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Santa Fe, NM 87505

CONDITIONS

Action 386950

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386950
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/25/2024

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

QUESTIONS

Action 386952

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386952
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420059937
Incident Name	NAPP2420059937 GREVEY COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Grevey Com TB
Date Release Discovered	07/18/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	7,967
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/01/2024
Time sampling will commence	09:30 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.033410,-103.396000

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1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 386952

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386952
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/25/2024

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

QUESTIONS

Action 386953

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386953
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420059937
Incident Name	NAPP2420059937 GREVEY COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Grevey Com TB
Date Release Discovered	07/18/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	7,967
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/02/2024
Time sampling will commence	09:30 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.033410,-103.396000

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CONDITIONS

Action 386953

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386953
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/25/2024

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

QUESTIONS

Action 386955

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386955
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420059937
Incident Name	NAPP2420059937 GREVEY COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Grevey Com TB
Date Release Discovered	07/18/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	7,967
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/03/2024
Time sampling will commence	09:30 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.033410,-103.396000

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CONDITIONS

Action 386955

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386955
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/25/2024

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

QUESTIONS

Action 386956

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386956
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420059937
Incident Name	NAPP2420059937 GREVEY COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Grevey Com TB
Date Release Discovered	07/18/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	7,967
What is the estimated number of samples that will be gathered	50
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/04/2024
Time sampling will commence	09:30 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.033410,-103.396000

District I
1625 N. French Dr., Hobbs, NM 88240
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CONDITIONS

Action 386956

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 386956
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/25/2024

From: [Wells, Shelly, EMNRD](#)
To: [Ashley Giovengo](#); [Arsenio Jones](#); [Jason Touchet](#); [Velez, Nelson, EMNRD](#)
Cc: [Cole Burton](#); [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] Extension Request - Grevey Com TB - Incident Number nAPP2420059937
Date: Friday, October 11, 2024 9:30:40 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

[**EXTERNAL EMAIL**]

Good morning Ashley,

The extension request for NAPP2420059937 GREVEY COM TB is approved. The new due date to submit your remediation plan or closure report to the OCD is December 20, 2024. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Thursday, October 10, 2024 11:59 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Arsenio Jones <arsenio.jones@matadorresources.com>; Jason Touchet <jason.touchet@matadorresources.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] Extension Request - Grevey Com TB - Incident Number nAPP2420059937

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 of the current deadline of October 16, 2024, for submitting a remediation work plan or closure report required in

19.15.29.12.B.(1) NMAC at the Grevey Com TB (Site) (Incident Number nAPP2420059937). The release occurred on July 18, 2024, and approximately 529 barrels (bbls) of produced water were release inside the tank containment; 525 bbls were recovered. The subject matter release impacted areas surrounding the tank containment an overspray from the release impacted an off-pad area on the west side of the caliche pad. Ensolum personnel completed a liner integrity inspection on July 27, 2024, and conducted vertical delineation sampling beneath the containment liner on July 30, 2024. Excavation of the impacted areas began on September 30, 2024, and confirmation soil sampling activities was completed on October 04, 2024. Matador intends to submit a remediation work plan or closure report, after reviewing laboratory analytical results from confirmation soil sampling activities. Matador respectfully requests an extension until December 20, 2024.

Thanks,



Ashley Giovengo

Senior Scientist

575-988-0055

Ensolum, LLC

in f X

“Your authenticity is your superpower.” – Unknown

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 400341

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 400341
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420059937
Incident Name	NAPP2420059937 GREVEY COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	GREVEY COM TB
Date Release Discovered	07/18/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Tank (Any) Produced Water Released: 529 BBL Recovered: 525 BBL Lost: 4 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)	Not answered.

Sante Fe Main Office
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 2

Action 400341

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 400341
	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: 11/07/2024
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 400341

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 400341
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	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	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4780
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	13557
GRO+DRO (EPA SW-846 Method 8015M)	10557
BTEX (EPA SW-846 Method 8021B or 8260B)	105.3
Benzene (EPA SW-846 Method 8021B or 8260B)	8.5
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	09/30/2024
On what date will (or did) the final sampling or liner inspection occur	10/18/2024
On what date will (or was) the remediation complete(d)	10/18/2024
What is the estimated surface area (in square feet) that will be reclaimed	4318
What is the estimated volume (in cubic yards) that will be reclaimed	166
What is the estimated surface area (in square feet) that will be remediated	4318
What is the estimated volume (in cubic yards) that will be remediated	166
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 400341

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 400341
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	<i>Not answered.</i>
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	R360
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 11/07/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 400341

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 400341
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	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	Transfer pumps, Process piping, Lined Containment with oil and water tanks inside containment.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4318
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	166
<i>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.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-025-52038 GREVEY COM #111H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 11/07/2024

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QUESTIONS, Page 6

Action 400341

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 400341
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	392677
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/18/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	7199

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

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CONDITIONS

Action 400341

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 400341
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of BH01, BH02, BH07, BH11, FS37, FS38, FS41, and FS47 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	11/14/2024