



February 27, 2025

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

**Re: Closure Request  
General Kehoe #228H  
Incident Number nAPP2420927733  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the General Kehoe #228 (Site). The Site is located in Unit A, Section 02, Township 24 South, Range 28 East, in Eddy County, New Mexico (32.2537958°, -104.0519572°) and is associated with oil and gas exploration and production operations on Private Land.

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations, field screening activities, and soil sampling laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2420927733.

## BACKGROUND

On July 26, 2024, a produced water pipeline developed a leak, which resulted in the release of approximately 71 barrels (bbls) of produced water onto the sandy pipeline right-of-way (ROW); 20 bbls of produced water were recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on July 27, 2024, and the release was subsequently assigned Incident Number nAPP2420927733.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) soil boring C 4901 POD1, located approximately 0.27 miles southwest of the Site. The well had a reported depth to groundwater greater than 52 feet below ground surface (bgs) and a total depth of 55 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as

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shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallower groundwater conditions. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a 100-year flood plain, located approximately 2,317 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off-pad area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

On December 30, 2024, Ensolum personnel conducted soil sampling around the Site to assess for the presence or absence of naturally occurring chloride in undisturbed soil horizons. A total of four background samples (BG01 through BG04) were collected in areas that did not appear to be disturbed by oil and gas operations and at depths ranging from ground surface to 6 feet bgs. Background soil sample locations are presented on Figure 3. Background soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chain-of-custody procedures to Envirotech Analysis Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Field screening results and lithologic observations were logged on lithologic soil sampling logs, which are included in Appendix B. The delineation soil sample locations are depicted on Figure 3.

NMOCD approved a background chloride concentration limit, via email on January 31, 2025, of vertical delineation of chloride concentrations that reduce to a concentration below 1,000 mg/kg before increasing again, and a concentration of 1,267 mg/kg for chloride and 100 mg/kg for TPH in sidewall confirmation samples at the Site (see Appendix E).

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## SITE ASSESSMENT ACTIVITIES

On July 26, 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 C.

## DELINEATION SOIL SAMPLING ACTIVITIES

On August 14, 2024, Ensolum personnel were onsite to conduct lateral and vertical delineation sampling activities. One delineation soil sample (SS04) was collected from around the release extent at ground surface to assess the release. Five boreholes were advanced via hand auger within the release extent to assess the vertical extent of the release. Boreholes BH01 through BH05 were all advanced to a depth of 6 feet bgs with the exception of borehole BH02, which was advanced to a depth of 5.5 feet bgs.

On August 14, 2024, Ensolum personnel returned to the Site to conduct lateral delineation sampling activities. Five delineation soil sample SS01 through SS03, SS05, and SS06 were collected from around the release extent at ground surface to assess the lateral extent of release.

On December 30 and 31, 2024 and January 3 and 6, 2025, Ensolum personnel were onsite to continue vertical delineation sampling activities. Five potholes were advanced via trackhoe within the release extent to assess the vertical extent of the release. Potholes BH01, BH04, and BH05 were advanced to a depth of 18 feet bgs, pothole BH02 was advanced to a depth of 10 feet bgs, and pothole BH03 was advanced to a depth of 9 feet bgs.

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 B. The delineation soil sample locations are depicted on Figure 2. Soil samples were handled and analyzed as described above.

## EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Beginning on December 17, 2024, impacted and waste-containing soil was excavated from the off-pad spill area as indicated by visible staining, field screening activities, and laboratory analytical results from delineation soil samples. Excavation activities were performed using a trackhoe, front-end loader, and transport vehicles.

Following the removal of impacted and waste-containing soil, Ensolum personnel collected 5-point composite soil samples representing no more than 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 FS26) were collected from the floor of the excavation at depths ranging from 4 feet to 5 feet bgs. Confirmation sidewall soil samples (SW01 through SW11) were collected at depths ranging from ground surface to 4 feet bgs. 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 4.

The final excavation extent measured approximately 5,185 square feet. A total of approximately 1,368 cubic yards of impacted and waste-containing soil was removed during the excavation activities.

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The waste-containing soil was transported and properly disposed of at the R360 Facility in Hobbs New Mexico.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS01 through SS06), collected around the release extent, indicated all COC concentrations were compliant with Site Closure Criteria and with the reclamation requirement. Laboratory analytical results indicated GRO+DRO concentrations exceeded Site Closure Criteria at ground surface in borehole BH01 through BH03 and BH05, TPH concentrations exceeded the Site Closure Criteria at ground surface in boreholes BH02, BH03 and BH05, BTEX concentrations exceeded Site Closure Criteria at ground surface in boreholes BH02 and BH03, and chloride concentrations at surface in BH02. Laboratory analytical results for the vertical delineation soil samples collected from boreholes BH01 through BH05 indicated all COC concentrations were in compliance with the Site Closure Criteria and with the approved naturally occurring chloride variance at a depth of 8 feet bgs in borehole BH01, 6 feet bgs in borehole BH02, 2 feet bgs in borehole BH03, 10 feet bgs in BH04, and 4 feet bgs in BH05.

Laboratory analytical results for excavation floor soil samples FS01 through FS26 indicated all COC concentrations were in compliance with the Site Closure Criteria at depths ranging from 4 feet to 5 feet bgs and with the reclamation requirement. Laboratory analytical results for confirmation side wall samples (SW01 through SW11) indicated COC concentrations were all in compliance with the approved chloride variance. Laboratory analytical results are summarized in Tables 1, 2, 3, and 4 and the complete laboratory analytical reports are included as Appendix D.

## CLOSURE REQUEST

The release extent has been laterally defined to the strictest Closure Criteria per NMOCD Table I at surface by delineation soil samples (SS01 through SS05, laterally defined to the accepted chloride variance below ground surface by sidewall soil sample SW01 through SW11 collected at 0-4 feet bgs, and vertically by boreholes (BH01 through BH05), collected at depths between ground surface and 18 feet bgs. Excavation of the waste-containing soil area off pad was completed, and excavation floor samples (FS01 through FS26), collected at depths ranging from 4 feet to 5 feet bgs, and confirmation sidewall soil samples (SW01 through SW11), collected from ground surface to 4-feet bgs, were all in compliance with the Site Closure Criteria, the reclamation requirement, and the approved chloride variance.

Based on the remedial actions completed to date and a depth to groundwater greater than 52 feet bgs, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2420927733.

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



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Sincerely,  
**Ensolum, LLC**

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

Chad Hamilton  
Project Geologist

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

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

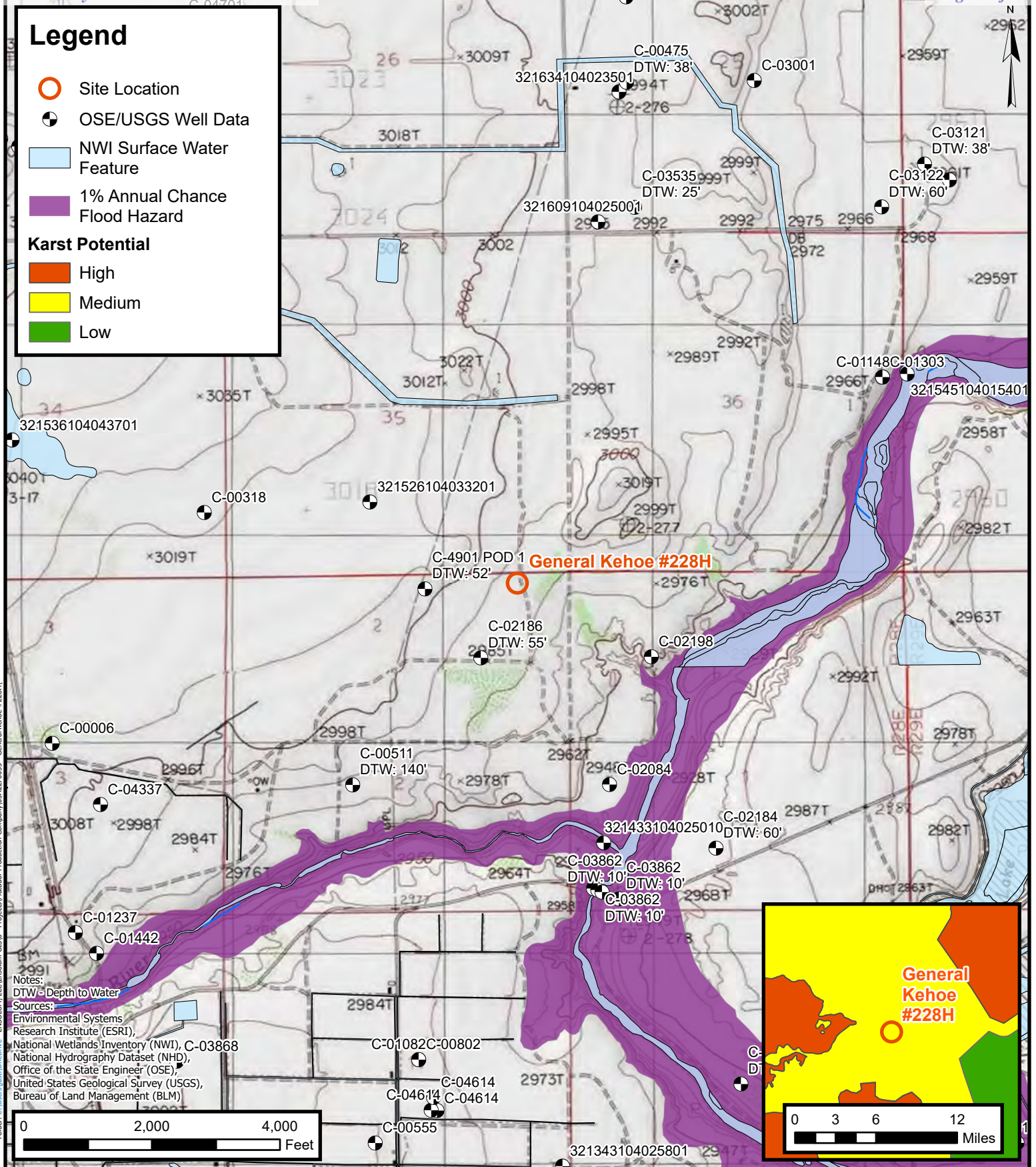
Appendices:

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



FIGURES

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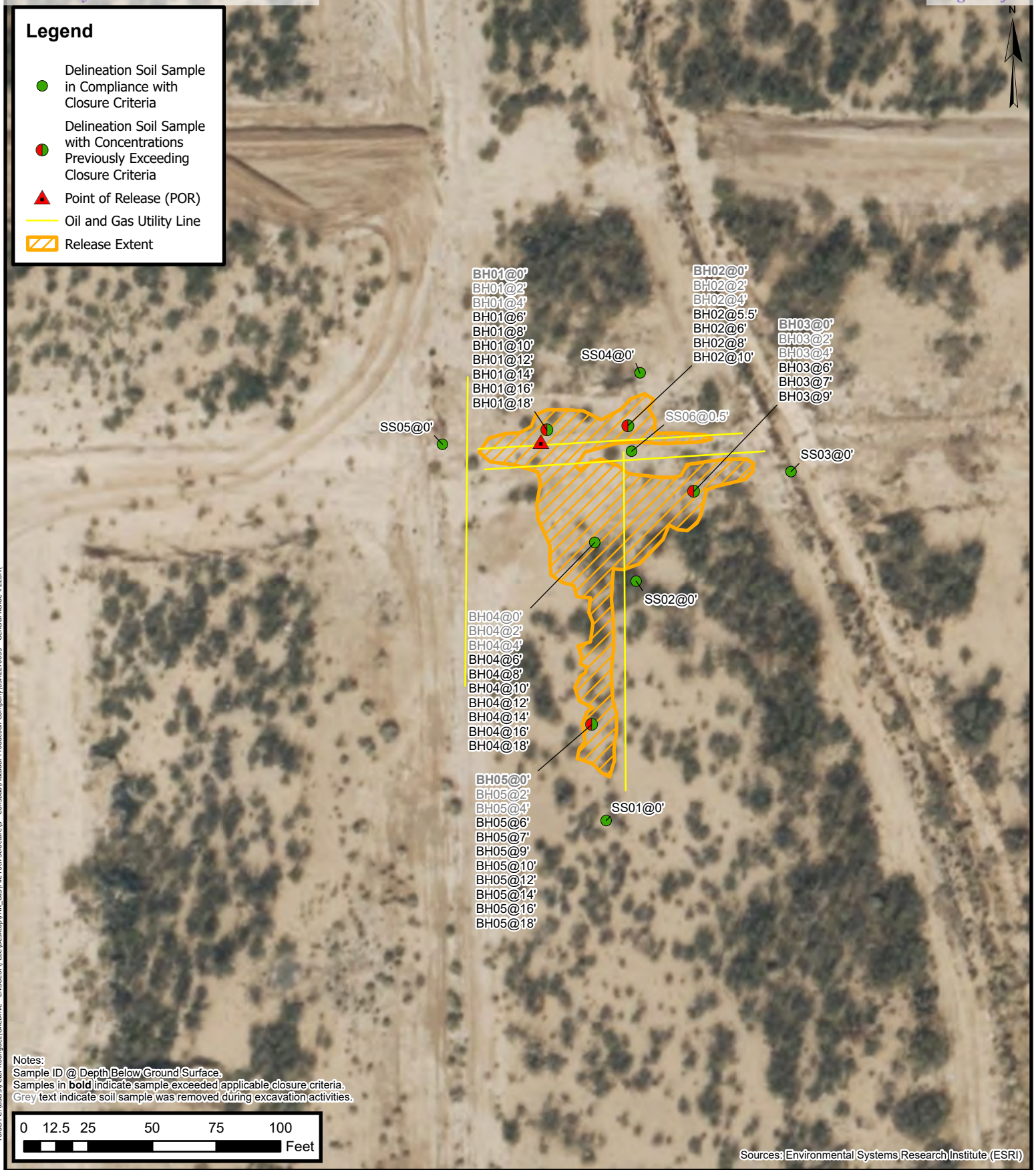
## Site Receptor Map

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**FIGURE**

**1**





## Delineation Soil Sample Locations

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FIGURE  
2



**Legend**

- Background Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- Oil and Gas Utility Line
- ▨ Release Extent

BG03@0.5'  
BG03@1'  
BG03@2'  
BG03@3'  
BG03@4'  
BG03@5'  
BG03@6'

BG04@0.5'  
BG04@1'  
BG04@2'  
BG04@3'  
BG04@4'  
BG04@5'  
BG04@6'

BG02@0.5'  
BG02@1'  
BG02@2'  
BG02@3'  
BG02@4'  
BG02@5'  
BG02@6'

BG01@0.5'  
BG01@1'  
BG01@2'  
BG01@3'  
BG01@4'  
BG01@5'  
BG01@6'

Notes:  
Sample ID @ Depth Below Ground Surface.

0 15 30 60 90 120  
Feet

Sources: Environmental Systems Research Institute (ESRI)

**Background Soil Sample Locations**

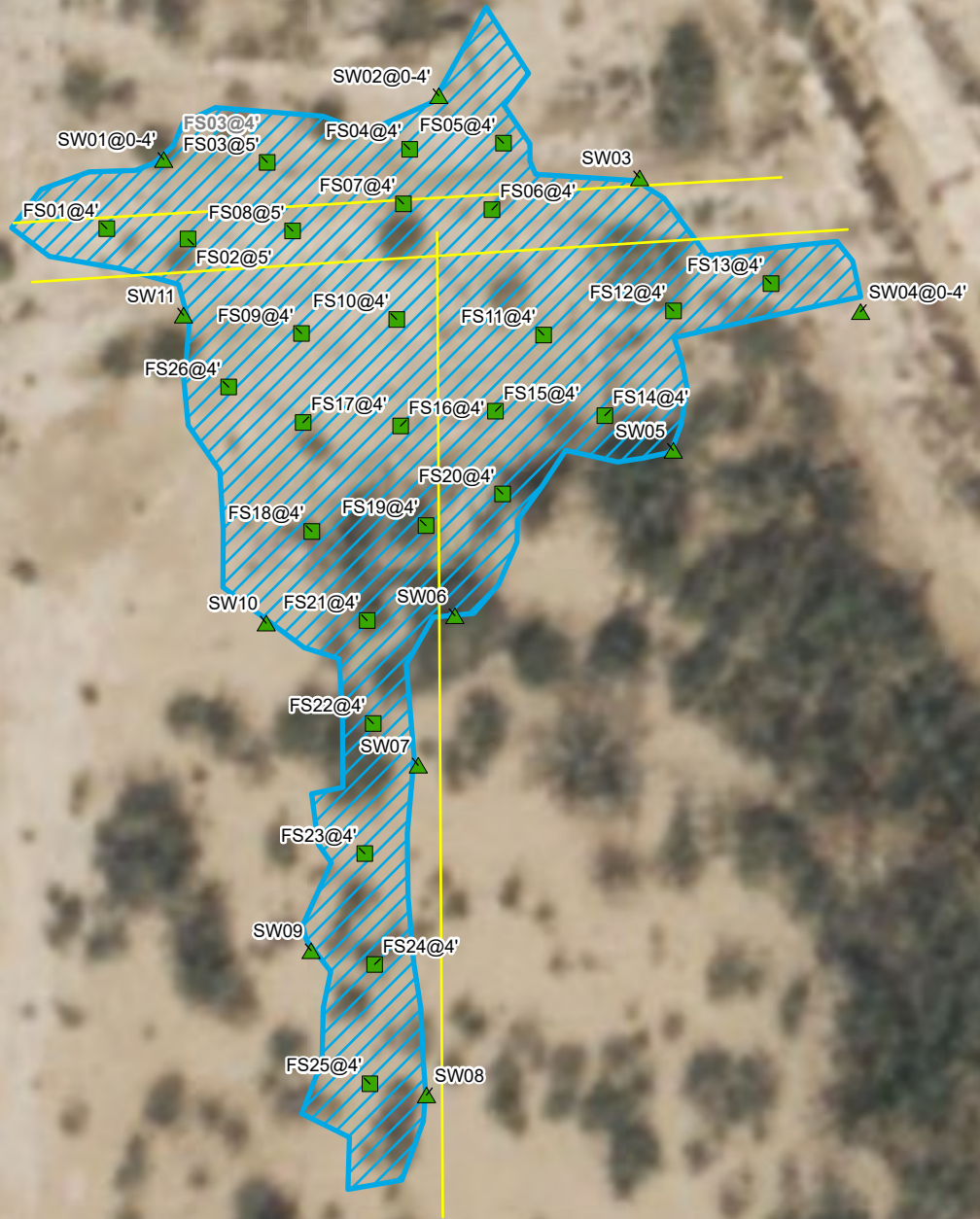
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**FIGURE****3**



## Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- Oil and Gas 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 Location

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FIGURE

4





TABLES



**TABLE 1**  
**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)
<b>NMOCB Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Delineation Soil Samples</b>										
SS01	11/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS02	11/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	125
SS03	11/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	123
SS04	8/14/2024	0	<0.0250	0.0585	<20.0	<25.0	<50.0	<25.0	<50.0	257
SS05	11/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	213
SS06	11/19/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01	8/14/2024	0	0.523	9.127	177	1,690	224	1,867	2,091	6,020
BH01	8/14/2024	2	<0.0250	<0.0500	<20.0	31.7	<50.0	31.7	31.7	2,120
BH01	8/14/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,500
BH01	8/14/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,800
BH01	1/3/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	686
BH01	1/3/2025	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	500
BH01	1/3/2025	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	654
BH01	1/3/2025	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	712
BH01	1/3/2025	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	773
BH01	1/3/2025	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,220
BH02	8/14/2024	0	1.1688	24.8488	276	18,700	2,750	18,976	21,726	11,600
BH02	8/14/2024	2	<0.0250	<0.0500	<20.0	149	<50.0	149	149	2,280
BH02	8/14/2024	4	<0.0250	<0.0500	<20.0	80.4	<50.0	80.4	80.4	1,020
BH02	8/14/2024	5.5	<0.0250	<0.0500	<20.0	263	51.5	263	314.5	3,780
BH02	1/6/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	206
BH02	1/6/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	373
BH02	1/6/2025	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	416
BH03	8/14/2024	0	3.92	78.15	770	10,200	1,370	10,970	12,340	5,030
BH03	8/14/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,040
BH03	8/14/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	479
BH03	8/14/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	746
BH03	1/6/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	766
BH03	1/6/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	539
BH04	8/14/2024	0	<0.0250	<0.0500	<20.0	174	105	174	279	1,770



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 General Kehoe #228H  
 Matador Production Company  
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Delineation Soil Samples</b>										
BH04	8/14/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,970
BH04	8/14/2024	4	<0.0250	<0.0500	<20.0	33.1	<50.0	33.1	33.1	2,240
BH04	8/14/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,170
BH04	1/6/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,110
BH04	1/6/2025	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	884
BH04	1/6/2025	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	990
BH04	1/6/2025	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	893
BH04	1/6/2025	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,010
BH04	1/6/2025	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,190
BH05	8/14/2024	0	0.252	3.957	58.1	20,100	3,110	20,158.1	23,268.1	5,310
BH05	8/14/2024	2	<0.0250	<0.0500	<20.0	40.6	<50.0	40.6	40.6	1,960
BH05	8/14/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	656
BH05	8/14/2024	6	<0.0250	<0.0500	<20.0	119	<50.0	119	119	1,060
BH05	1/3/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	780
BH05	1/3/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	480
BH05	1/6/2025	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,220
BH05	1/6/2025	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,120
BH05	1/6/2025	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,360
BH05	1/6/2025	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,110
BH05	1/6/2025	18	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,750

**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

&lt;: 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**  
 General Kehoe #228H  
 Matador Production Company  
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Background Soil Sample Locations</b>										
BG01	12/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BG01	12/30/2024	1	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	395
BG01	12/30/2024	2	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	722
BG01	12/30/2024	3	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	744
BG01	12/30/2024	4	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	495
BG01	12/30/2024	5	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	457
BG01	12/31/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	625
BG02	12/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	137
BG02	12/30/2024	1	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,950
BG02	12/30/2024	2	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,840
BG02	12/30/2024	3	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,640
BG02	12/30/2024	4	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	948
BG02	12/30/2024	5	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	964
BG02	12/31/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	1,040
BG03	12/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	538
BG03	12/30/2024	1	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	525
BG03	12/30/2024	2	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	833
BG03	12/30/2024	3	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,040
BG03	12/30/2024	4	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	590
BG03	12/30/2024	5	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	583
BG03	12/31/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	611





**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 General Kehoe #228H  
 Matador Production Company  
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Background Soil Sample Locations</b>										
BG04	12/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BG04	12/30/2024	1	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,800
BG04	12/30/2024	2	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,980
BG04	12/30/2024	3	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	1,740
BG04	12/30/2024	4	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	759
BG04	12/30/2024	5	<0.0250	<0.0500	<0.20	<25.0	<50.0	<20.0	<20.0	673
BG04	12/31/2024	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	744

**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

&lt;: 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**  
 General Kehoe #228H  
 Matador Production Company  
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCB Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS01	12/17/2024	4	<0.0250	<0.0500	<20.0	314	<50.0	314	314	576
FS02	12/18/2024	5	<0.0250	<0.0500	<20.0	193	54.5	193	247.5	3,810
FS03	12/17/2024	4	<0.0250	2.058	138	1,130	161.0	1,268	1,429	2,300
FS03	1/3/2024	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	657
FS04	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,410
FS05	12/18/2024	4	<0.0250	<0.0500	<20.0	86.4	<50.0	86.4	86.4	3,260
FS06	12/18/2024	4	<0.0250	0.0778	<20.0	102	<50.0	102	102	4,960
FS07	12/18/2024	4	<0.0250	0.8007	<20.0	442	80.1	442	522.1	1,890
FS08	12/19/2024	5	<0.0250	<0.0500	<20.0	209	56.6	209	265.6	5,520
FS09	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	647
FS10	12/18/2024	4	<0.0250	<0.0500	<20.0	117	<50.0	117	117	4,220
FS11	12/18/2024	4	<0.0250	<0.0500	<20.0	34.5	<50.0	34.5	34.5	1,430
FS12	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,910
FS13	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,030
FS14	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,100
FS15	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,420
FS16	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,940
FS17	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,340
FS18	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,150
FS19	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,650
FS20	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,470
FS21	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,260



**TABLE 3**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 General Kehoe #228H  
 Matador Production Company  
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Excavation Floor Soil Samples</b>										
FS22	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,740
FS23	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,050
FS24	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,290
FS25	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,280
FS26	12/18/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	886

**Notes:**

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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 4**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 General Kehoe #228H  
 Matador Production Company  
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>10,000</b>
<b>Sidewall Soil Samples</b>										
SW01	12/20/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	385
SW02	12/20/2024	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	356
SW03	2/7/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	<100
SW04	12/20/2024	0-4	<0.0250	<0.0500	<20.0	45.8	<50.0	45.8	45.8	428
SW05	2/7/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	251
SW06	2/7/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	515
SW07	2/13/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	202
SW08	2/13/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	487
SW09	2/13/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	792
SW10	2/13/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	660
SW11	2/7/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<20.0	488

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

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Grey text represents samples that have been excavated

"&lt;": 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

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO (WELL NO) POD1		WELL TAG ID NO NA		OSE FILE NO(S) C 4901 POD1		
	WELL OWNER NAME(S) Matador Production Company				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS R347 N26th Rural Street 2nd Floor				CITY Artesia	STATE NM	ZIP 88210
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 15	12.89	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LONGITUDE	104	03	23.87	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit B, Section 02, T 24S, R28E, Eddy County							

2. DRILLING & CASING INFORMATION	LICENSE NO WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc.		
	DRILLING STARTED 11/20/2024		DRILLING ENDED 11/20/2024		DEPTH OF COMPLETED WELL (FT) 55	BORE HOLE DEPTH (FT) 55	DEPTH WATER FIRST ENCOUNTERED (FT) 52	
	COMPLETED WELL IS: <input checked="" type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 16		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		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	55	5.00	Soil Boring				

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

FOR OSE INTERNAL USE

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

FILE NO.	POD NO	TRN NO.
LOCATION	WELL TAG ID NO	PAGE 1 OF 2

Released to Imaging: 3/5/2025 1:32:42 PM







## APPENDIX B


### Lithologic Soil Sampling Logs


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								Sample Name: BH01		Date: 8/14/2024	
								Site Name: General Kehoe #228H			
								Incident Number: nAPP2420927733			
								Job Number: 03A2270055			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Chad Hamilton		Method: Hand Auger	
32.253862, -104.051974								Hole Diameter: 3"		Total Depth: 18ft	
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			
M			Y	BH01	0	0	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp			
M	3,348			BH01	1	1					
D	2,520			BH01	2	2					
D	2,520			BH01	3	3	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, trace gypsum present			
D	3,113			BH01	4	4					
D	>3,617			BH01	5	5					
D				BH01	6	6					
M	840		N	BH01	7	7					
M	767		N	BH01	8	8					
M	638		N	BH01	9	9					
M	576		N	BH01	10	10					
M	638		N	BH01	11	11					
M	576		N	BH01	12	12					


 <b>ENSOLUM</b>		Sample Name: BH01		Date: 8/14/2024				
		Site Name: General Kehoe #228H						
		Incident Number: nAPP2420927733						
		Job Number: 03A2270055						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>		Logged By: Chad Hamilton		Method: Trackhoe				
32.253862, -104.051974		Hole Diameter: 3'		Total Depth: 18 feet				
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
M	700		N	BH01	13	13	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp
M	996		N	BH01	14	14		
M	996		N	BH01	15	15		
M	918		N	BH01	16	16		
M	918		N	BH01	17	17		
M	1,170		N	BH01	18	18		
Total Depth 18 ft.								




 <b>ENSOLUM</b>		Sample Name: BH02		Date: 8/14/2024				
		Site Name: General Kehoe #228H						
		Incident Number: nAPP2420927733						
		Job Number: 03A2270055						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>		Logged By: Chad Hamilton		Method: Trackhoe				
32.253866, -104.051871		Hole Diameter: 3'		Total Depth: 10 ft.				
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	BH02	0	0	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp
M	3,617		Y	BH02	0.5	0.5		
D	>3,617		N	BH02	1	1		
D	2,520		N	BH02	2	2		
D	1,663		N	BH02	3	3	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, trace gypsum present
D	1,545		N	BH02	4	4		
D	739		N	BH02	5	5		
D			N	BH02	5.5	5.5		
D	319		N	BH02	6	6		
D	515		N	BH02	7	7		
D	464		N	BH02	8	8		
D	414		N	BH02	9	9		
D	576		N	BH02	10	10		
Total Depth 10 ft.								


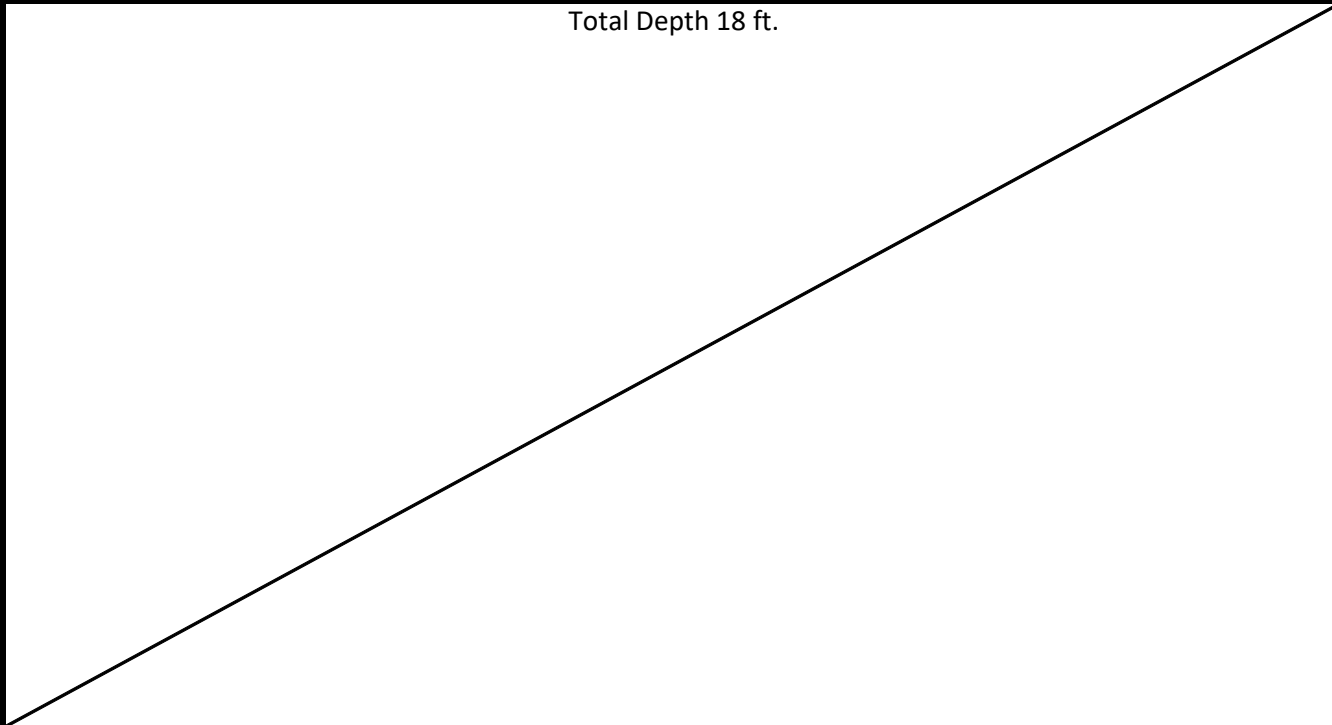
 <b>ENSOLUM</b>		Sample Name: BH03		Date: 8/14/2024				
		Site Name: General Kehoe #228H						
		Incident Number: nAPP2420927733						
		Job Number: 03A2270055						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>		Logged By: Chad Hamilton		Method: Trackhoe				
32.253794, -104.051789		Hole Diameter: 3'		Total Depth: 9 ft.				
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	BH03	0	0	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp
M	>3,617		Y	BH03	0.5	0.5		
D	>3,617		N	BH03	1	1		
D	3,348		N	BH03	2	2	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, trace gypsum present
D	2,195		N	BH03	3	3		
D	672		N	BH03	4	4		
D	840		N	BH03	5	5		
D	996		N	BH03	6	6		
D	996		N	BH03	7	7		
D	576		N	BH03	8	8		
D	515		N	BH03	9	9		
Total Depth 9 ft.								


					Sample Name: BH04		Date: 8/14/2024	
					Site Name: General Kehoe #228H			
					Incident Number: nAPP2420927733			
					Job Number: 03A2270055			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Chad Hamilton		Method: Trackhoe	
32.253741, -104.051915					Hole Diameter: 3'		Total Depth: 18 ft.	
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	BH04	0	0	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp
M	3,348		Y	BH04	0.5	0.5		
D	>3,617			BH04	1	1		
D	>3,617			BH04	2	2		
D	1,545			BH04	3	3	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, trace gypsum present
D	2,357			BH04	4	4		
D	2,520			BH04	5	5		
D	1,254			BH04	6	6		
M	1,080	N		BH04	7	7		
M	1,366	N		BH04	8	8		
M	996	N		BH04	9	9		
M	918	N		BH04	10	10		
M	918	N		BH04	11	11		
M	840	N		BH04	12	12		


 <b>ENSOLUM</b>		Sample Name: BH04		Date: 8/14/2024				
		Site Name: General Kehoe #228H						
		Incident Number: nAPP2420927733						
		Job Number: 03A2270055						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: Chad Hamilton		Method: Trackhoe		
32.253741, -104.051915				Hole Diameter: 3'		Total Depth: 18 ft.		
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
M	918		N	BH04	13	13	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp
M	1,080		N	BH04	14	14		
M	918		N	BH04	15	15		
M	1,080		N	BH04	16	16	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, trace gypsum present
M	1,170		N	BH04	17	17		
M	1,366		N	BH04	18	18		
Total Depth 18 ft.								




								Sample Name: BH05		Date: 8/14/2024	
								Site Name: General Kehoe #228H			
								Incident Number: nAPP2420927733			
								Job Number: 03A2270055			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Chad Hamilton		Method: Trackhoe	
32.253741545, -104.051920								Hole Diameter: 3'		Total Depth: 18 ft.	
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	BH05	0	0	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp			
M	3,348		Y	BH05	0.5	0.5					
D	3,328		N	BH05	1	1					
D	2,049		N	BH05	2	2					
D	1,663		N	BH05	3	3	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, trace gypsum present			
D	840		N	BH05	4	4					
D	1,165		N	BH05	5	5					
D	1,165		N	BH05	6	6					
D	1,080		N	BH05	7	7					
D	1,170		N	BH05	8	8					
D	918		N	BH05	9	9					
D	1,366		N	BH05	10	10					
D	1,265		N	BH05	11	11					
D	1,265		N	BH05	12	12					


 <b>ENSOLUM</b>		Sample Name: BH05		Date: 8/14/2024				
		Site Name: General Kehoe #228H						
		Incident Number: nAPP2420927733						
		Job Number: 03A2270055						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>		Logged By: Chad Hamilton		Method: Trackhoe				
32.253741545, -104.051920		Hole Diameter: 3'		Total Depth: 18 ft.				
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	1,478		N	BH05	13	13	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, Sharp
D	1,478		N	BH05	14	14		
D	1,590		N	BH05	15	15		
D	1,265		N	BH05	16	16	SM	Silty Sand with trace gravel - Med to dark brown, Medium to fine with trace very fine and trace medium to small gravel, Moist, Non-Plastic, Noncohesive, Massive, Non-Uniform, trace gypsum present
D	1,366		N	BH05	17	17		
D	1,842		N	BH05	18	18		
Total Depth 18 ft.								

 <b>ENSOLUM</b>		Sample Name: BG01		Date: 12/30/24				
		Site Name: General Kehoe #228H						
		Incident Number: nAPP2420927733						
		Job Number: 03A270055						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.253322, -104.051691			Logged By: Jenna Hinkle		Method: Hand auger			
			Hole Diameter: 3"		Total Depth: 6'			
Comments: Field screening conducted with HACH Chloride Test Strips, and PetroFLAG Soil Analyzer System. 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	ND		N	BG01	0	0		Dry, No staining, sandy dirt, non-pliable, non-plastic
	576		N	BG01	1	1		
D	996	18	N	BG01	2	2		
D	1,080		N	BG01	3	3	SP-SM	
D	767		N	BG01	4	4		
D	638		N	BG01	5	5		
D	700	11	N	BG01	6	6		
Total Depth at 6 ft bgs.								

 <b>ENSOLUM</b>		Sample Name: BG02		Date: 12/30/24				
		Site Name: General Kehoe #228H						
		Incident Number: nAPP2420927733						
		Job Number: 03A270055						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.253192, -104.052295			Logged By: Jenna Hinkle		Method: Hand auger			
			Hole Diameter: 3"		Total Depth: 6'			
Comments: Field screening conducted with HACH Chloride Test Strips, and PetroFLAG Soil Analyzer System. 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	235	38	N	BG02	0	0	SP-SM	Dry, No staining, sandy dirt, non-pliable, non-plastic
	2,464		N	BG02	1	1		
D	2,464	20	N	BG02	2	2		
D	2,296		N	BG02	3	3		
D	1,265	15	N	BG02	4	4		
D	1,265		N	BG02	5	5		
D	1,713	19	N	BG02	6	6		
Total Depth at 6 ft bgs.								



 <b>ENSOLUM</b>		Sample Name: BG03		Date: 12/30/24				
		Site Name: General Kehoe #228H						
		Incident Number: nAPP2420927733						
		Job Number: 03A270055						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.254319, -104.052303			Logged By: Jenna Hinkle		Method: Hand auger			
			Hole Diameter: 3"		Total Depth: 6'			
Comments: Field screening conducted with HACH Chloride Test Strips, and PetroFLAG Soil Analyzer System. 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	996		N	BG03	0	0		Dry, No staining, sandy dirt, non-pliable, non-plastic
	840		N	BG03	1	1		
D	1,170	11	N	BG03	2	2		
D	1,478		N	BG03	3	3	SP-SM	
D	840		N	BG03	4	4		
D	918		N	BG03	5	5		
D	918	22	N	BG03	6	6		
Total Depth at 6 ft bgs.								

 <b>ENSOLUM</b>		Sample Name: BG04		Date: 12/30/24				
		Site Name: General Kehoe #228H						
		Incident Number: nAPP2420927733						
		Job Number: 03A270055						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.254276, -104.051581			Logged By: Jenna Hinkle		Method: Hand auger			
			Hole Diameter: 3"		Total Depth: 6'			
Comments: Field screening conducted with HACH Chloride Test Strips, and PetroFLAG Soil Analyzer System. 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	ND	46	N	BG04	0	0	SP-SM	Dry, No staining, sandy dirt, non-pliable, non-plastic
	2,469		N	BG04	1	1		
D	2,469	15	N	BG04	2	2		
D	2,296		N	BG04	3	3		
D	1,170	18	N	BG04	4	4		
D	918		N	BG04	5	5		
D	1,080	13	N	BG04	6	6		
Total Depth at 6 ft bgs.								



## APPENDIX C

### Photographic Log

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**Photographic Log**

Matador Production Company

General Kehoe #228H

nAPP2420927733



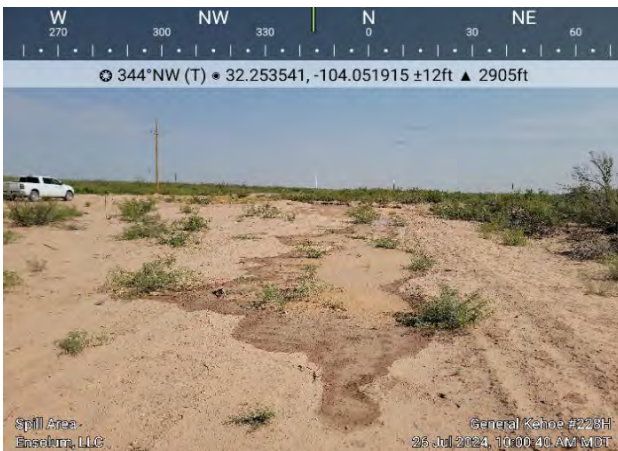
Photograph 1  
Description: Release Area  
View: East

Date: 7/26/2024



Photograph 2  
Description: Release Area  
View: West

Date: 7/26/2024



Photograph 3  
Description: Release Area  
View: North

Date: 7/26/2024



Photograph 4  
Description: Release Area  
View: Southwest

Date: 7/26/2024





# Photographic Log

Matador Production Company

General Kehoe #228H

nAPP2420927733



Photograph 5 Date: 8/14/2024  
Description: Delineation sampling  
View: South



Photograph 6 Date: 8/14/2024  
Description: Delineation sampling  
View: South



Photograph 7 Date: 8/14/2024  
Description: Delineation sampling  
View: South



Photograph 8 Date: 8/14/2024  
Description: Delineation sampling  
View: West





# Photographic Log

Matador Production Company

General Kehoe #228H

nAPP2420927733



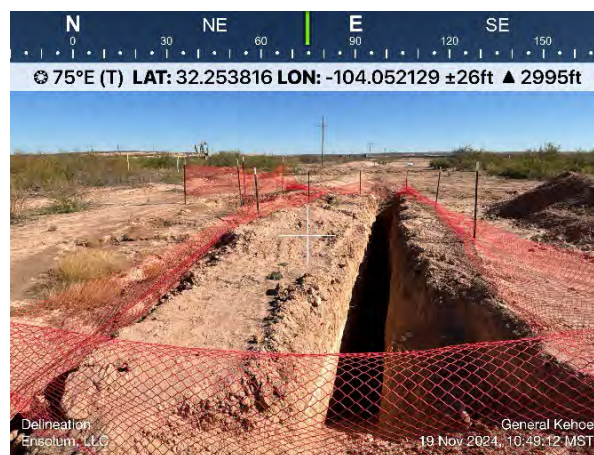
Photograph 9 Date: 11/19/2024  
Description: Delineation sampling  
View: Northeast



Photograph 10 Date: 11/19/2024  
Description: Delineation sampling  
View: East



Photograph 11 Date: 11/19/2024  
Description: Delineation sampling  
View: Northeast



Photograph 12 Date: 11/19/2024  
Description: Delineation sampling  
View: East





## Photographic Log

Matador Production Company

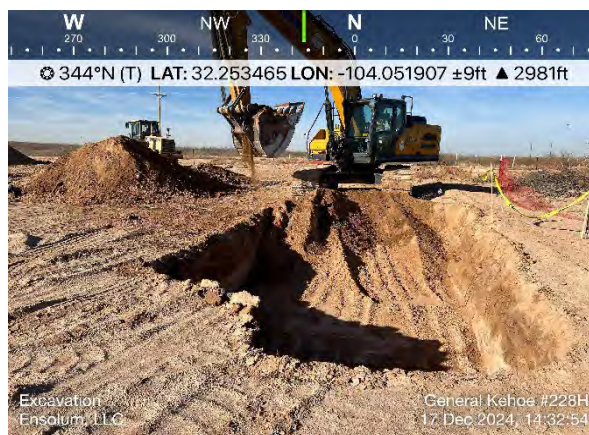
General Kehoe #228H

nAPP2420927733



Photograph 13  
Description: DTW Boring  
View: Northwest

Date: 11/20/2024



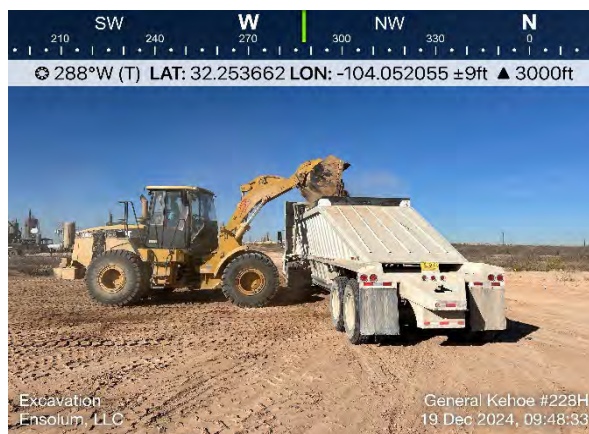
Photograph 14  
Description: Excavation  
View: North

Date: 12/17/2024



Photograph 15  
Description: Excavation  
View: Southwest

Date: 12/17/2024



Photograph 16  
Description: Excavation  
View: West

Date: 12/19/2024



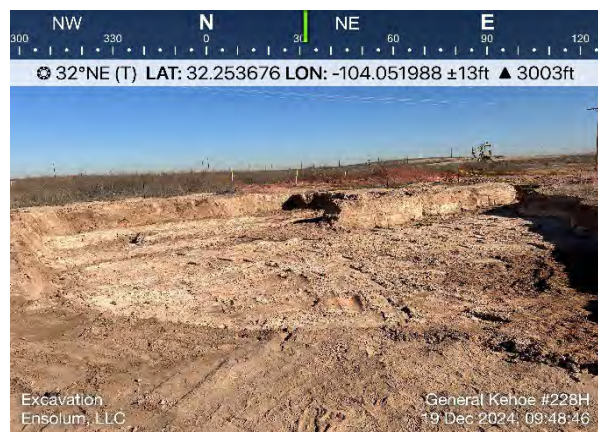


## Photographic Log

Matador Production Company

General Kehoe #228H

nAPP2420927733



Photograph 17  
Description: Excavation  
View: Northeast

Date: 12/19/2024



Photograph 18  
Description: Excavation  
View: East

Date: 12/19/2024



Photograph 19  
Description: Background Sampling  
View: Southwest

Date: 12/30/2024



Photograph 20  
Description: Background Sampling  
View: North

Date: 12/30/2024





## Photographic Log

Matador Production Company

General Kehoe #228H

nAPP2420927733



Photograph 21  
Description: Delineation  
View: East

Date: 1/3/2025



Photograph 22  
Description: Delineation  
View: South

Date: 1/6/2025



Photograph 23  
Description: Delineation  
View: East

Date: 1/6/2025



Photograph 24  
Description: Delineation  
View: North

Date: 1/6/2025



## 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: General Kehoe #228H

Work Order: E408147

Job Number: 23003-0002

Received: 8/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/22/24

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: 8/22/24

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



Project Name: General Kehoe #228H  
Workorder: E408147  
Date Received: 8/16/2024 8:00:56AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/16/2024 8:00:56AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
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[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

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**Michelle Gonzales**  
Client Representative  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

General Kehoe #228H

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

08/22/24 13:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 - 0'	E408147-01A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH02 - 0'	E408147-02A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH03 - 0'	E408147-03A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH04 - 0'	E408147-04A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH05 - 0'	E408147-05A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH01 - 2'	E408147-06A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH02 - 2'	E408147-07A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH03 - 2'	E408147-08A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH04 - 2'	E408147-09A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH05 - 2'	E408147-10A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH01 - 4'	E408147-11A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH02 - 4'	E408147-12A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH03 - 4'	E408147-13A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH04 - 4'	E408147-14A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH05 - 4'	E408147-15A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH01 - 6'	E408147-16A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH02 - 5.5'	E408147-17A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH03 - 6'	E408147-18A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH04 - 6'	E408147-19A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
BH05 - 6'	E408147-20A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.
SS04 - 0'	E408147-21A	Soil	08/14/24	08/16/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH01 - 0'

E408147-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	0.523	0.0250	1	08/16/24	08/19/24	
Toluene	0.324	0.0250	1	08/16/24	08/19/24	
o-Xylene	1.65	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	6.63	0.0500	1	08/16/24	08/19/24	
Total Xylenes	8.28	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID	96.6 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	177	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	135 %	70-130		08/16/24	08/19/24	S3
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	1690	25.0	1	08/15/24	08/21/24	
Oil Range Organics (C28-C36)	224	50.0	1	08/15/24	08/21/24	
Surrogate: n-Nonane	127 %	50-200		08/15/24	08/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	6020	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
---	---	----------------------------------

BH02 - 0'

E408147-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	0.0388	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	1.13	0.0250	1	08/16/24	08/19/24	
Toluene	2.38	0.0250	1	08/16/24	08/19/24	
o-Xylene	4.51	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	16.8	0.0500	1	08/16/24	08/19/24	
Total Xylenes	21.3	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID	96.2 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	276	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	128 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	18700	250	10	08/15/24	08/21/24	
Oil Range Organics (C28-C36)	2750	500	10	08/15/24	08/21/24	
Surrogate: n-Nonane	337 %	50-200		08/15/24	08/21/24	S5
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	11600	400	20	08/16/24	08/16/24	





## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/22/2024 1:43:00PM

BH03 - 0'

E408147-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.125	5	08/16/24	08/21/24	
Ethylbenzene	3.92	0.125	5	08/16/24	08/21/24	
Toluene	9.13	0.125	5	08/16/24	08/21/24	
o-Xylene	12.4	0.125	5	08/16/24	08/21/24	
p,m-Xylene	52.7	0.250	5	08/16/24	08/21/24	
Total Xylenes	65.1	0.125	5	08/16/24	08/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		08/16/24	08/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	770	100	5	08/16/24	08/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	123 %	70-130		08/16/24	08/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	10200	250	10	08/15/24	08/21/24	
Oil Range Organics (C28-C36)	1370	500	10	08/15/24	08/21/24	
<i>Surrogate: n-Nonane</i>						
	452 %	50-200		08/15/24	08/21/24	S5
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	5030	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH04 - 0'

E408147-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/21/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/21/24	
Toluene	ND	0.0250	1	08/16/24	08/21/24	
o-Xylene	ND	0.0250	1	08/16/24	08/21/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/21/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/21/24	
Surrogate: 4-Bromochlorobenzene-PID	86.8 %	70-130		08/16/24	08/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.0 %	70-130		08/16/24	08/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	174	25.0	1	08/15/24	08/21/24	
Oil Range Organics (C28-C36)	105	50.0	1	08/15/24	08/21/24	
Surrogate: n-Nonane	94.3 %	50-200		08/15/24	08/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	1770	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH05 - 0'

E408147-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	0.252	0.0250	1	08/16/24	08/19/24	
Toluene	0.265	0.0250	1	08/16/24	08/19/24	
o-Xylene	1.20	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	4.24	0.0500	1	08/16/24	08/19/24	
Total Xylenes	5.44	0.0250	1	08/16/24	08/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	58.1	20.0	1	08/16/24	08/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.2 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	20100	500	20	08/15/24	08/21/24	
Oil Range Organics (C28-C36)	3110	1000	20	08/15/24	08/21/24	
<i>Surrogate: n-Nonane</i>						
	189 %	50-200		08/15/24	08/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	5310	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH01 - 2'

E408147-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	0.0258	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	0.0258	0.0250	1	08/16/24	08/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.4 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.7 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	31.7	25.0	1	08/15/24	08/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/21/24	
<i>Surrogate: n-Nonane</i>						
	93.8 %	50-200		08/15/24	08/21/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	2120	100	5	08/16/24	08/16/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH02 - 2'

E408147-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID	88.9 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.7 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	149	25.0	1	08/15/24	08/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/16/24	
Surrogate: n-Nonane	96.8 %	50-200		08/15/24	08/16/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	2280	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH03 - 2'

E408147-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID	88.2 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/16/24	
Surrogate: n-Nonane	97.1 %	50-200		08/15/24	08/16/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	3040	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH04 - 2'

E408147-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID	87.6 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.1 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane	94.2 %	50-200		08/15/24	08/17/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	4970	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH05 - 2'

E408147-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.7 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.1 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	40.6	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
<i>Surrogate: n-Nonane</i>						
	96.1 %	50-200		08/15/24	08/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	1960	200	10	08/16/24	08/16/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH01 - 4'

E408147-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.3 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
<i>Surrogate: n-Nonane</i>						
	97.5 %	50-200		08/15/24	08/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	2560	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH02 - 4'

E408147-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.9 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	80.4	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		08/15/24	08/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	1020	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH03 - 4'

E408147-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID	86.7 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.6 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane	98.2 %	50-200		08/15/24	08/17/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	479	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH04 - 4'

E408147-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID	87.2 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.8 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	33.1	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane	96.9 %	50-200		08/15/24	08/17/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	2240	200	10	08/16/24	08/16/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH05 - 4'

E408147-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID	86.3 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.0 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane	93.0 %	50-200		08/15/24	08/17/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	656	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH01 - 6'

E408147-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/19/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/19/24	
Surrogate: 4-Bromochlorobenzene-PID	87.0 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.9 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane	92.4 %	50-200		08/15/24	08/17/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	4800	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH02 - 5.5'  
E408147-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/19/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/19/24	
Toluene	ND	0.0250	1	08/16/24	08/19/24	
o-Xylene	ND	0.0250	1	08/16/24	08/19/24	
p,m-Xylene	0.0752	0.0500	1	08/16/24	08/19/24	
Total Xylenes	0.0752	0.0250	1	08/16/24	08/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.1 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.2 %	70-130		08/16/24	08/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	263	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	51.5	50.0	1	08/15/24	08/17/24	
<i>Surrogate: n-Nonane</i>						
	99.7 %	50-200		08/15/24	08/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	3780	200	10	08/16/24	08/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH03 - 6'

E408147-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/20/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/20/24	
Toluene	ND	0.0250	1	08/16/24	08/20/24	
o-Xylene	ND	0.0250	1	08/16/24	08/20/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/20/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/20/24	
Surrogate: 4-Bromochlorobenzene-PID	86.9 %	70-130		08/16/24	08/20/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.0 %	70-130		08/16/24	08/20/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane	94.3 %	50-200		08/15/24	08/17/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	746	200	10	08/16/24	08/16/24	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/22/2024 1:43:00PM

**BH04 - 6'****E408147-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/20/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/20/24	
Toluene	ND	0.0250	1	08/16/24	08/20/24	
o-Xylene	ND	0.0250	1	08/16/24	08/20/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/20/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.6 %	70-130		08/16/24	08/20/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		08/16/24	08/20/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
<i>Surrogate: n-Nonane</i>						
	92.2 %	50-200		08/15/24	08/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	1170	200	10	08/16/24	08/16/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/22/2024 1:43:00PM
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BH05 - 6'

E408147-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Benzene	ND	0.0250	1	08/16/24	08/20/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/20/24	
Toluene	ND	0.0250	1	08/16/24	08/20/24	
o-Xylene	ND	0.0250	1	08/16/24	08/20/24	
p,m-Xylene	ND	0.0500	1	08/16/24	08/20/24	
Total Xylenes	ND	0.0250	1	08/16/24	08/20/24	
Surrogate: 4-Bromochlorobenzene-PID	87.9 %	70-130		08/16/24	08/20/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2433119	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.2 %	70-130		08/16/24	08/20/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433106	
Diesel Range Organics (C10-C28)	119	25.0	1	08/15/24	08/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/17/24	
Surrogate: n-Nonane	93.0 %	50-200		08/15/24	08/17/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433115	
Chloride	1060	200	10	08/16/24	08/16/24	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/22/2024 1:43:00PM

SS04 - 0'

E408147-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433118
Benzene	ND	0.0250	1	08/16/24	08/16/24	
Ethylbenzene	ND	0.0250	1	08/16/24	08/16/24	
Toluene	ND	0.0250	1	08/16/24	08/16/24	
o-Xylene	ND	0.0250	1	08/16/24	08/16/24	
p,m-Xylene	0.0585	0.0500	1	08/16/24	08/16/24	
Total Xylenes	0.0585	0.0250	1	08/16/24	08/16/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		08/16/24	08/16/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		08/16/24	08/16/24	
Surrogate: Toluene-d8	103 %	70-130		08/16/24	08/16/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2433118
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/24	08/16/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		08/16/24	08/16/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		08/16/24	08/16/24	
Surrogate: Toluene-d8	103 %	70-130		08/16/24	08/16/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2433109
Diesel Range Organics (C10-C28)	ND	25.0	1	08/15/24	08/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/15/24	08/16/24	
Surrogate: n-Nonane	108 %	50-200		08/15/24	08/16/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2433116
Chloride	257	20.0	1	08/16/24	08/16/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

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 (2433118-BLK1) Prepared: 08/16/24 Analyzed: 08/16/24

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	0.483		0.500		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2433118-BS1) Prepared: 08/16/24 Analyzed: 08/16/24

Benzene	2.40	0.0250	2.50		96.1	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130			
Toluene	2.44	0.0250	2.50		97.7	70-130			
o-Xylene	2.33	0.0250	2.50		93.2	70-130			
p,m-Xylene	4.66	0.0500	5.00		93.2	70-130			
Total Xylenes	6.99	0.0250	7.50		93.2	70-130			
Surrogate: Bromofluorobenzene	0.474		0.500		94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike (2433118-MS1) Source: E408148-05 Prepared: 08/16/24 Analyzed: 08/16/24

Benzene	2.29	0.0250	2.50	ND	91.6	48-131			
Ethylbenzene	2.28	0.0250	2.50	ND	91.0	45-135			
Toluene	2.26	0.0250	2.50	ND	90.4	48-130			
o-Xylene	2.24	0.0250	2.50	ND	89.4	43-135			
p,m-Xylene	4.47	0.0500	5.00	ND	89.4	43-135			
Total Xylenes	6.71	0.0250	7.50	ND	89.4	43-135			
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

Matrix Spike Dup (2433118-MSD1) Source: E408148-05 Prepared: 08/16/24 Analyzed: 08/16/24

Benzene	2.35	0.0250	2.50	ND	93.9	48-131	2.54	23	
Ethylbenzene	2.40	0.0250	2.50	ND	95.9	45-135	5.18	27	
Toluene	2.44	0.0250	2.50	ND	97.5	48-130	7.54	24	
o-Xylene	2.31	0.0250	2.50	ND	92.3	43-135	3.19	27	
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135	2.83	27	
Total Xylenes	6.91	0.0250	7.50	ND	92.1	43-135	2.95	27	
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

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 (2433119-BLK1) Prepared: 08/16/24 Analyzed: 08/19/24

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	7.00		8.00		87.5	70-130			

LCS (2433119-BS1) Prepared: 08/16/24 Analyzed: 08/19/24

Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.0	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	4.88	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.95	0.0500	10.0		99.5	70-130			
Total Xylenes	14.8	0.0250	15.0		98.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.06		8.00		88.3	70-130			

Matrix Spike (2433119-MS1) Source: E408147-07 Prepared: 08/16/24 Analyzed: 08/19/24

Benzene	5.38	0.0250	5.00	ND	108	54-133			
Ethylbenzene	5.16	0.0250	5.00	ND	103	61-133			
Toluene	5.30	0.0250	5.00	ND	106	61-130			
o-Xylene	5.14	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.9	70-130			

Matrix Spike Dup (2433119-MSD1) Source: E408147-07 Prepared: 08/16/24 Analyzed: 08/19/24

Benzene	5.10	0.0250	5.00	ND	102	54-133	5.36	20	
Ethylbenzene	4.90	0.0250	5.00	ND	98.1	61-133	5.13	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	5.15	20	
o-Xylene	4.89	0.0250	5.00	ND	97.7	63-131	5.11	20	
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131	5.42	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131	5.32	20	
Surrogate: 4-Bromochlorobenzene-PID	7.17		8.00		89.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

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 (2433118-BLK1) Prepared: 08/16/24 Analyzed: 08/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.483		0.500		96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		91.9	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			

LCS (2433118-BS2) Prepared: 08/16/24 Analyzed: 08/16/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

Matrix Spike (2433118-MS2) Source: E408148-05 Prepared: 08/16/24 Analyzed: 08/16/24

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			

Matrix Spike Dup (2433118-MSD2) Source: E408148-05 Prepared: 08/16/24 Analyzed: 08/16/24

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	2.47	20	
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.530		0.500		106	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2433119-BLK1) Prepared: 08/16/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

LCS (2433119-BS2) Prepared: 08/16/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	42.2	20.0	50.0		84.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.9	70-130			

Matrix Spike (2433119-MS2) Source: E408147-07 Prepared: 08/16/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.4	70-130			

Matrix Spike Dup (2433119-MSD2) Source: E408147-07 Prepared: 08/16/24 Analyzed: 08/19/24

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.4	70-130	2.42	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2433106-BLK1)					Prepared: 08/15/24 Analyzed: 08/16/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.1		50.0		96.1	50-200			

LCS (2433106-BS1)					Prepared: 08/15/24 Analyzed: 08/16/24				
Diesel Range Organics (C10-C28)	190	25.0	250		76.2	38-132			
Surrogate: n-Nonane	49.7		50.0		99.5	50-200			

Matrix Spike (2433106-MS1)					Source: E408147-03		Prepared: 08/15/24 Analyzed: 08/21/24		
Diesel Range Organics (C10-C28)	10200	250	250	10200	8.76	38-132			M4
Surrogate: n-Nonane	222		50.0		445	50-200			S5

Matrix Spike Dup (2433106-MSD1)					Source: E408147-03		Prepared: 08/15/24 Analyzed: 08/21/24		
Diesel Range Organics (C10-C28)	11200	250	250	10200	397	38-132	9.06	20	M4
Surrogate: n-Nonane	249		50.0		499	50-200			S5



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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

Blank (2433109-BLK1) Prepared: 08/15/24 Analyzed: 08/16/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.1		50.0		112	50-200			

LCS (2433109-BS1) Prepared: 08/15/24 Analyzed: 08/16/24

Diesel Range Organics (C10-C28)	216	25.0	250		86.5	38-132			
Surrogate: n-Nonane	54.3		50.0		109	50-200			

Matrix Spike (2433109-MS1) Source: E408146-02 Prepared: 08/15/24 Analyzed: 08/16/24

Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.8	38-132			
Surrogate: n-Nonane	46.2		50.0		92.4	50-200			

Matrix Spike Dup (2433109-MSD1) Source: E408146-02 Prepared: 08/15/24 Analyzed: 08/16/24

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.4	38-132	1.49	20	
Surrogate: n-Nonane	48.4		50.0		96.8	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  8/22/2024 1:43:00PM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433115-BLK1)						Prepared: 08/16/24 Analyzed: 08/16/24			
Chloride	ND	20.0							
LCS (2433115-BS1)						Prepared: 08/16/24 Analyzed: 08/16/24			
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2433115-MS1)				Source: E408147-03		Prepared: 08/16/24 Analyzed: 08/16/24			
Chloride	5450	200	250	5030	168	80-120			M4
Matrix Spike Dup (2433115-MSD1)				Source: E408147-03		Prepared: 08/16/24 Analyzed: 08/16/24			
Chloride	5430	200	250	5030	160	80-120	0.363	20	M4



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/22/2024 1:43:00PM

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 (2433116-BLK1)					Prepared: 08/16/24 Analyzed: 08/16/24				
Chloride	ND	20.0							
LCS (2433116-BS1)					Prepared: 08/16/24 Analyzed: 08/16/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2433116-MS1)					Source: E408146-04		Prepared: 08/16/24 Analyzed: 08/16/24		
Chloride	351	20.0	250	97.5	102	80-120			
Matrix Spike Dup (2433116-MSD1)					Source: E408146-04		Prepared: 08/16/24 Analyzed: 08/16/24		
Chloride	337	20.0	250	97.5	95.8	80-120	4.11	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:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/22/24 13:43

- 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.
- S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.
- 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 3

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: General Kehoe #228H				Address: 3122 National Parks Hwy		E408147	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															
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	Remarks
9:01	8/14/2024	Soil	1	BH01 - 0'		1						X			
9:13	8/14/2024	Soil	1	BH02 - 0'		2						X			
9:32	8/14/2024	Soil	1	BH03 - 0'		3						X			
9:39	8/14/2024	Soil	1	BH04 - 0'		4						X			
9:51	8/14/2024	Soil	1	BH05 - 0'		5						X			
9:06	8/14/2024	Soil	1	BH01 - 2'		6						X			
9:18	8/14/2024	Soil	1	BH02 - 2'		7						X			
9:36	8/14/2024	Soil	1	BH03 - 2'		8						X			
9:47	8/14/2024	Soil	1	BH04 - 2'		9						X			
10:01	8/14/2024	Soil	1	BH05 - 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: Chad Hamilton and Bowan Simmons															
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days  Lab Use Only Received on ice: <u>Y</u> / N  T1 _____ T2 _____ T3 _____  AVG Temp °C <u>4</u>							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															





## Chain of Custody

Page 2 of 3

Client Information				Invoice Information		Lab Use Only		TAT				State									
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E408147		Job Number 23003-0002		1D 2D 3D Std X				NM CO UT TX X							
Project: General Kehoe #228H				Address: 3122 National Parks Hwy		City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055													
Project Manager: Ashley Giovengo				Email: agiovengo@ensolum.com																	
Address: 3122 National Parks Hwy				Miscellaneous:																	
City, State, Zip: Carlsbad NM, 88220																					
Phone: 575-988-0055																					
Email: agiovengo@ensolum.com																					
Sample Information										Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA				
12:21	8/14/2024	Soil	1	BH01 - 4'		11						X									
12:16	8/14/2024	Soil	1	BH02 - 4'		12						X									
12:08	8/14/2024	Soil	1	BH03 - 4'		13						X									
12:02	8/14/2024	Soil	1	BH04 - 4'		14						X									
11:58	8/14/2024	Soil	1	BH05 - 4'		15						X									
14:12	8/14/2024	Soil	1	BH01 - 6'		16						X									
14:05	8/14/2024	Soil	1	BH02 - 5.5'		17						X									
13:40	8/14/2024	Soil	1	BH03 - 6'		18						X									
13:47	8/14/2024	Soil	1	BH04 - 6'		19						X									
13:28	8/14/2024	Soil	1	BH05 - 6'		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: Chad Hamilton and Bowan Simmons																					
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 41													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____																					
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					





## Chain of Custody

[illegible]

## Envirotech Analytical Laboratory

Printed: 8/16/2024 8:53:14AM

## 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:	08/16/24 08:00	Work Order ID:	E408147
Phone:	(972) 371-5200	Date Logged In:	08/15/24 15:59	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/22/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E411205

Job Number: 23003-0002

Received: 11/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/21/24

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: 11/21/24

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



Project Name: General Kehoe #228H  
Workorder: E411205  
Date Received: 11/20/2024 6:15:12AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/20/2024 6:15:12AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

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**Southern New Mexico Area**

**Lynn Jarboe**  
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Client Representative  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/21/24 12:38
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 @ 0'	E411205-01A	Soil	11/19/24	11/20/24	Glass Jar, 2 oz.
SS02 @ 0'	E411205-02A	Soil	11/19/24	11/20/24	Glass Jar, 2 oz.
SS03 @ 0'	E411205-03A	Soil	11/19/24	11/20/24	Glass Jar, 2 oz.
SS05 @ 0'	E411205-04A	Soil	11/19/24	11/20/24	Glass Jar, 2 oz.
SS06 @ 0'	E411205-05A	Soil	11/19/24	11/20/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/21/2024 12:38:06PM
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SS01 @ 0'  
E411205-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2447050	
Benzene	ND	0.0250	1	11/20/24	11/20/24	
Ethylbenzene	ND	0.0250	1	11/20/24	11/20/24	
Toluene	ND	0.0250	1	11/20/24	11/20/24	
o-Xylene	ND	0.0250	1	11/20/24	11/20/24	
p,m-Xylene	ND	0.0500	1	11/20/24	11/20/24	
Total Xylenes	ND	0.0250	1	11/20/24	11/20/24	
Surrogate: 4-Bromochlorobenzene-PID	95.5 %	70-130		11/20/24	11/20/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2447050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/24	11/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		11/20/24	11/20/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2447051	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/20/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/20/24	11/20/24	
Surrogate: n-Nonane	99.7 %	50-200		11/20/24	11/20/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2447057	
Chloride	ND	20.0	1	11/20/24	11/20/24	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/21/2024 12:38:06PM
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SS02 @ 0'

E411205-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2447050	
Benzene	ND	0.0250	1	11/20/24	11/20/24	
Ethylbenzene	ND	0.0250	1	11/20/24	11/20/24	
Toluene	ND	0.0250	1	11/20/24	11/20/24	
o-Xylene	ND	0.0250	1	11/20/24	11/20/24	
p,m-Xylene	ND	0.0500	1	11/20/24	11/20/24	
Total Xylenes	ND	0.0250	1	11/20/24	11/20/24	
Surrogate: 4-Bromochlorobenzene-PID	96.5 %	70-130		11/20/24	11/20/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2447050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/24	11/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		11/20/24	11/20/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2447051	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/20/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/20/24	11/20/24	
Surrogate: n-Nonane	93.9 %	50-200		11/20/24	11/20/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2447057	
Chloride	125	20.0	1	11/20/24	11/20/24	





## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
11/21/2024 12:38:06PM

SS03 @ 0'

E411205-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2447050	
Benzene	ND	0.0250	1	11/20/24	11/20/24	
Ethylbenzene	ND	0.0250	1	11/20/24	11/20/24	
Toluene	ND	0.0250	1	11/20/24	11/20/24	
o-Xylene	ND	0.0250	1	11/20/24	11/20/24	
p,m-Xylene	ND	0.0500	1	11/20/24	11/20/24	
Total Xylenes	ND	0.0250	1	11/20/24	11/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		11/20/24	11/20/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2447050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/24	11/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.6 %	70-130		11/20/24	11/20/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2447051	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/20/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/20/24	11/20/24	
<i>Surrogate: n-Nonane</i>						
	98.0 %	50-200		11/20/24	11/20/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2447057	
Chloride	123	100	5	11/20/24	11/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/21/2024 12:38:06PM
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SS05 @ 0'  
E411205-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2447050	
Benzene	ND	0.0250	1	11/20/24	11/20/24	
Ethylbenzene	ND	0.0250	1	11/20/24	11/20/24	
Toluene	ND	0.0250	1	11/20/24	11/20/24	
o-Xylene	ND	0.0250	1	11/20/24	11/20/24	
p,m-Xylene	ND	0.0500	1	11/20/24	11/20/24	
Total Xylenes	ND	0.0250	1	11/20/24	11/20/24	
Surrogate: 4-Bromochlorobenzene-PID	97.8 %	70-130		11/20/24	11/20/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2447050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/24	11/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.9 %	70-130		11/20/24	11/20/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2447051	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/20/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/20/24	11/20/24	
Surrogate: n-Nonane	104 %	50-200		11/20/24	11/20/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2447057	
Chloride	213	100	5	11/20/24	11/20/24	

## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
11/21/2024 12:38:06PM

SS06 @ 0'

E411205-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2447050	
Benzene	ND	0.0250	1	11/20/24	11/20/24	
Ethylbenzene	ND	0.0250	1	11/20/24	11/20/24	
Toluene	ND	0.0250	1	11/20/24	11/20/24	
o-Xylene	ND	0.0250	1	11/20/24	11/20/24	
p,m-Xylene	ND	0.0500	1	11/20/24	11/20/24	
Total Xylenes	ND	0.0250	1	11/20/24	11/20/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		11/20/24	11/20/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2447050	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/20/24	11/20/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		11/20/24	11/20/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2447051	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/20/24	11/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/20/24	11/20/24	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		11/20/24	11/20/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2447057	
Chloride	ND	100	5	11/20/24	11/20/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/21/2024 12:38:06PM

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 (2447050-BLK1) Prepared: 11/20/24 Analyzed: 11/21/24

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	7.77		8.00		97.1	70-130			

LCS (2447050-BS1) Prepared: 11/20/24 Analyzed: 11/21/24

Benzene	5.25	0.0250	5.00		105	70-130			
Ethylbenzene	5.03	0.0250	5.00		101	70-130			
Toluene	5.16	0.0250	5.00		103	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			

LCS Dup (2447050-BSD1) Prepared: 11/20/24 Analyzed: 11/21/24

Benzene	5.38	0.0250	5.00		108	70-130	2.61	20	
Ethylbenzene	5.18	0.0250	5.00		104	70-130	2.84	20	
Toluene	5.29	0.0250	5.00		106	70-130	2.56	20	
o-Xylene	5.19	0.0250	5.00		104	70-130	2.73	20	
p,m-Xylene	10.5	0.0500	10.0		105	70-130	2.99	20	
Total Xylenes	15.7	0.0250	15.0		105	70-130	2.90	20	
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/21/2024 12:38:06PM

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 (2447050-BLK1) Prepared: 11/20/24 Analyzed: 11/21/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			

LCS (2447050-BS2) Prepared: 11/20/24 Analyzed: 11/21/24

Gasoline Range Organics (C6-C10)	41.3	20.0	50.0		82.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

LCS Dup (2447050-BSD2) Prepared: 11/20/24 Analyzed: 11/21/24

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0		80.6	70-130	2.59	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.7	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/21/2024 12:38:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2447051-BLK1)					Prepared: 11/20/24 Analyzed: 11/20/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			

LCS (2447051-BS1)					Prepared: 11/20/24 Analyzed: 11/20/24				
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	49.5		50.0		98.9	50-200			

LCS Dup (2447051-BSD1)					Prepared: 11/20/24 Analyzed: 11/20/24				
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132	0.917	20	
Surrogate: n-Nonane	52.0		50.0		104	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/21/2024 12:38:06PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2447057-BLK1)					Prepared: 11/20/24 Analyzed: 11/20/24				
Chloride	ND	20.0							
LCS (2447057-BS1)					Prepared: 11/20/24 Analyzed: 11/20/24				
Chloride	259	20.0	250		104	90-110			
LCS Dup (2447057-BSD1)					Prepared: 11/20/24 Analyzed: 11/20/24				
Chloride	258	20.0	250		103	90-110	0.279	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:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/21/24 12:38

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



## Chain of Custody

Client Information						Invoice Information						Lab Use Only								TAT				State			
Client: MATADOR PRODUCTION COMPANY Project: General Kehoe 228H Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com						Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:						Lab WO# E411205 Job Number 2300B-0002								1D X 2D 3D Std X CH				NM CO UT TX X			
												Analysis and Method												EPA Program			
												DRO/ORO by 8015 GRC/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			
Sample Information																											
Time Sampled		Date Sampled		Matrix		No. of Containers		Sample ID						Field Filter		Lab Number											
0856		11-19-24		S		1		SS01 @ 0'								1											
0859		11-19-24		S		1		SS02 @ 0'								2											
0957		11-19-24		S		1		SS03 @ 0'								3											
0918		11-19-24		S		1		SS05 @ 0'								4											
0910		11-19-24		S		1		SS06 @ 0'								5											
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, bsimmons@ensolum.com, jgonzalez@ensolum.com																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: Higinio Gonzalez																											
Relinquished by: (Signature)						Date 11-19-24		Time 10:30		Received by: (Signature) Michelle Gonzales						Date 11-19-24		Time 1030		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.  Lab Use Only Received on ice: (Y) N  T1 _____ T2 _____ T3 _____  AVG Temp °C 4							
Relinquished by: (Signature) Michelle Gonzales						Date 11-19-24		Time 1650		Received by: (Signature) John J.						Date 11-19-24		Time 1730									
Relinquished by: (Signature) John J.						Date 11-19-24		Time 2400		Received by: (Signature) Caitlin Mar						Date 11-20-24		Time 16:15									
Relinquished by: (Signature)						Date		Time		Received by: (Signature)						Date		Time									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											



envirotech

## Envirotech Analytical Laboratory

Printed: 11/20/2024 7:10:47AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	11/20/24 06:15	Work Order ID:	E411205
Phone:	(972) 371-5200	Date Logged In:	11/19/24 15:20	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	11/20/24 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? 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: General Kehoe #228H

Work Order: E501024

Job Number: 23003-0002

Received: 1/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/8/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 1/8/25

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



Project Name: General Kehoe #228H  
Workorder: E501024  
Date Received: 1/7/2025 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/7/2025 7:15:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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## Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

General Kehoe #228H

Project Number:

23003-0002

Project Manager:

Ashley Giovengo

Reported:

01/08/25 11:11

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS03-5'	E501024-01A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH01-8'	E501024-02A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH01-10'	E501024-03A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH01-12'	E501024-04A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH01-14'	E501024-05A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH01-16'	E501024-06A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH01-18'	E501024-07A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH05-7'	E501024-08A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.
BH05-9'	E501024-09A	Soil	01/03/25	01/07/25	Glass Jar, 2 oz.



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 11:11:33AM

FS03-5'

E501024-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.6 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2502022	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/07/25	
<i>Surrogate: n-Nonane</i>		112 %	50-200	01/07/25	01/07/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2502026	
Chloride	657	200	10	01/07/25	01/07/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 11:11:33AM

BH01-8'

E501024-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502018
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502018
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502022
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/07/25	
Surrogate: n-Nonane		111 %	50-200	01/07/25	01/07/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502026
Chloride	686	200	10	01/07/25	01/07/25	





## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 11:11:33AM

BH01-10'

E501024-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502018
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502018
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.5 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502022
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	01/07/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502026
Chloride	500	200	10	01/07/25	01/07/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 11:11:33AM

BH01-12'

E501024-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	102 %	70-130		01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.4 %	70-130		01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2502022	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		01/07/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2502026	
Chloride	654	200	10	01/07/25	01/07/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 11:11:33AM

BH01-14'

E501024-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502018
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502018
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.4 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502022
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	01/07/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502026
Chloride	712	200	10	01/07/25	01/07/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 11:11:33AM

BH01-16'

E501024-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.9 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2502022	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	01/07/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2502026	
Chloride	773	200	10	01/07/25	01/07/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 11:11:33AM

BH01-18'

E501024-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.8 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2502022	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
		118 %	50-200	01/07/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2502026	
Chloride	1220	100	5	01/07/25	01/07/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 11:11:33AM

BH05-7'

E501024-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.3 %	70-130	01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2502022	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
		120 %	50-200	01/07/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2502026	
Chloride	780	100	5	01/07/25	01/07/25	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 1/8/2025 11:11:33AM
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BH05-9'

E501024-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Benzene	ND	0.0250	1	01/07/25	01/07/25	
Ethylbenzene	ND	0.0250	1	01/07/25	01/07/25	
Toluene	ND	0.0250	1	01/07/25	01/07/25	
o-Xylene	ND	0.0250	1	01/07/25	01/07/25	
p,m-Xylene	ND	0.0500	1	01/07/25	01/07/25	
Total Xylenes	ND	0.0250	1	01/07/25	01/07/25	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2502018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/07/25	01/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.5 %	70-130		01/07/25	01/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2502022	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/07/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/07/25	01/08/25	
Surrogate: n-Nonane	112 %	50-200		01/07/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2502026	
Chloride	480	100	5	01/07/25	01/07/25	



## QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	<b>Reported:</b>
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM

## Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2502018-BLK1)

Prepared: 01/07/25 Analyzed: 01/07/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.3	70-130			

## LCS (2502018-BS1)

Prepared: 01/07/25 Analyzed: 01/07/25

Benzene	5.64	0.0250	5.00		113	70-130			
Ethylbenzene	5.44	0.0250	5.00		109	70-130			
Toluene	5.56	0.0250	5.00		111	70-130			
o-Xylene	5.41	0.0250	5.00		108	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.5	0.0250	15.0		110	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			

## Matrix Spike (2502018-MS1)

Source: E501021-07

Prepared: 01/07/25 Analyzed: 01/07/25

Benzene	5.17	0.0250	5.00	ND	103	54-133			
Ethylbenzene	4.98	0.0250	5.00	ND	99.5	61-133			
Toluene	5.08	0.0250	5.00	ND	102	61-130			
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.2	70-130			

## Matrix Spike Dup (2502018-MSD1)

Source: E501021-07

Prepared: 01/07/25 Analyzed: 01/07/25

Benzene	5.32	0.0250	5.00	ND	106	54-133	2.89	20	
Ethylbenzene	5.12	0.0250	5.00	ND	102	61-133	2.96	20	
Toluene	5.24	0.0250	5.00	ND	105	61-130	2.97	20	
o-Xylene	5.10	0.0250	5.00	ND	102	63-131	2.92	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	2.94	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	2.93	20	
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2502018-BLK1) Prepared: 01/07/25 Analyzed: 01/07/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			

LCS (2502018-BS2) Prepared: 01/07/25 Analyzed: 01/07/25

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

Matrix Spike (2502018-MS2) Source: E501021-07 Prepared: 01/07/25 Analyzed: 01/07/25

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			

Matrix Spike Dup (2502018-MSD2) Source: E501021-07 Prepared: 01/07/25 Analyzed: 01/07/25

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.8	70-130	6.28	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 11:11:33AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2502022-BLK1)					Prepared: 01/07/25 Analyzed: 01/07/25				
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 (2502022-BS1)					Prepared: 01/07/25 Analyzed: 01/07/25				
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	55.1		50.0		110	50-200			

Matrix Spike (2502022-MS1)					Source: E501021-04		Prepared: 01/07/25 Analyzed: 01/07/25		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			

Matrix Spike Dup (2502022-MSD1)					Source: E501021-04		Prepared: 01/07/25 Analyzed: 01/07/25		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.738	20	
Surrogate: n-Nonane	55.1		50.0		110	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  1/8/2025 11:11:33AM
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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 (2502026-BLK1)						Prepared: 01/07/25 Analyzed: 01/07/25			
Chloride	ND	20.0							
LCS (2502026-BS1)						Prepared: 01/07/25 Analyzed: 01/07/25			
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2502026-MS1)				Source: E501022-02		Prepared: 01/07/25 Analyzed: 01/07/25			
Chloride	281	100	250	ND	112	80-120			
Matrix Spike Dup (2502026-MSD1)				Source: E501022-02		Prepared: 01/07/25 Analyzed: 01/07/25			
Chloride	277	100	250	ND	111	80-120	1.44	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/08/25 11:11

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

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

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



## Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: General Refuse #228H				Address: 3122 National Parks Hwy		E501024		Job Number				230031002					
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
937	1/3/25	Soil	1	FS03-S'		1						X					
953				BH01-8'		2						X					
1030				10'		3						X					
1102				12'		4						X					
1138				14'		5						X					
1220				16'		6						X					
1254				18'		7						X					
1412				BH05-7'		8						X					
1433				9'		9						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: <i>[Signature]</i>																	
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.									
<i>[Signature]</i>		1/6/25	8:14	<i>Michelle Gonzales</i>		1-6-25	0814										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
<i>Michelle Gonzales</i>		1-6-25	1540	<i>[Signature]</i>		1-6-25	1630										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
<i>[Signature]</i>		1-6-25	2245	<i>[Signature]</i>		1-7-25	115										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

## Envirotech Analytical Laboratory

Printed: 1/7/2025 9:12:43AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	01/07/25 07:15	Work Order ID:	E501024
Phone:	(972) 371-5200	Date Logged In:	01/06/25 14:28	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	01/13/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

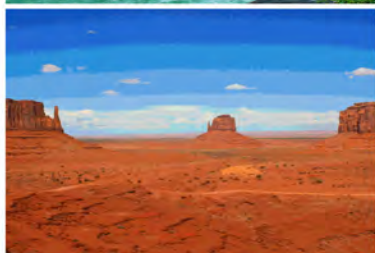
Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E501035

Job Number: 23003-0002

Received: 1/8/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/10/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
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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: 1/10/25

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



Project Name: General Kehoe #228H  
Workorder: E501035  
Date Received: 1/8/2025 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/8/2025 7:15:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
01/10/25 15:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05-10'	E501035-01A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH05-12'	E501035-02A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH05-14'	E501035-03A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH05-16'	E501035-04A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH05-18'	E501035-05A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH02-6'	E501035-06A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH02-8'	E501035-07A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH02-10'	E501035-08A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH03-7'	E501035-09A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH03-9'	E501035-10A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH04-8'	E501035-11A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH04-10'	E501035-12A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH04-12'	E501035-13A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH04-14'	E501035-14A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH04-16'	E501035-15A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.
BH04-18'	E501035-16A	Soil	01/06/25	01/08/25	Glass Jar, 2 oz.



## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/10/2025 3:33:13PM
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**BH05-10'**

**E501035-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2502039	
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.1 %	70-130	01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2502039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.1 %	70-130	01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2502045	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
<i>Surrogate: n-Nonane</i>		112 %	50-200	01/08/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2502047	
Chloride	1220	200	10	01/08/25	01/08/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH05-12'

E501035-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502039	
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.5 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2502045	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
	122 %	50-200		01/08/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2502047	
Chloride	1120	200	10	01/08/25	01/08/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH05-14'

E501035-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.9 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		01/08/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502047
Chloride	1360	200	10	01/08/25	01/08/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH05-16'

E501035-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	84.9 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		01/08/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502047
Chloride	1110	200	10	01/08/25	01/08/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH05-18'

E501035-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.2 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		01/08/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502047
Chloride	1750	200	10	01/08/25	01/08/25	





## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH02-6'

E501035-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.6 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		01/08/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502047
Chloride	206	200	10	01/08/25	01/08/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 1/10/2025 3:33:13PM
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BH02-8'

E501035-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2502039	
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
Surrogate: 4-Bromochlorobenzene-PID	87.9 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2502039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.1 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2502045	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
Surrogate: n-Nonane	113 %	50-200		01/08/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2502047	
Chloride	373	200	10	01/08/25	01/08/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH02-10'

E501035-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502039	
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.9 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.5 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2502045	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		01/08/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2502047	
Chloride	416	200	10	01/08/25	01/08/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH03-7'

E501035-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502039	
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	85.7 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.1 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2502045	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		01/08/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2502047	
Chloride	766	200	10	01/08/25	01/09/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH03-9'

E501035-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502039	
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.1 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2502045	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		01/08/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2502047	
Chloride	539	200	10	01/08/25	01/09/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH04-8'

E501035-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.2 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		01/08/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502047
Chloride	1110	200	10	01/08/25	01/09/25	





## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH04-10'

E501035-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.5 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/08/25	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		01/08/25	01/08/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502047
Chloride	884	200	10	01/08/25	01/09/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH04-12'

E501035-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.3 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/09/25	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		01/08/25	01/09/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502047
Chloride	990	200	10	01/08/25	01/09/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH04-14'

E501035-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.7 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/09/25	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		01/08/25	01/09/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502047
Chloride	893	200	10	01/08/25	01/09/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH04-16'

E501035-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.7 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/09/25	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		01/08/25	01/09/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502047
Chloride	1010	200	10	01/08/25	01/09/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/10/2025 3:33:13PM

BH04-18'

E501035-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Benzene	ND	0.0250	1	01/08/25	01/09/25	
Ethylbenzene	ND	0.0250	1	01/08/25	01/09/25	
Toluene	ND	0.0250	1	01/08/25	01/09/25	
o-Xylene	ND	0.0250	1	01/08/25	01/09/25	
p,m-Xylene	ND	0.0500	1	01/08/25	01/09/25	
Total Xylenes	ND	0.0250	1	01/08/25	01/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.2 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2502039
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/25	01/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		01/08/25	01/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2502045
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/25	01/09/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/25	01/09/25	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		01/08/25	01/09/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2502047
Chloride	1190	200	10	01/08/25	01/09/25	



## QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

## Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2502039-BLK1)

Prepared: 01/08/25 Analyzed: 01/08/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.93		8.00		86.7	70-130			

## LCS (2502039-BS1)

Prepared: 01/08/25 Analyzed: 01/08/25

Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
o-Xylene	4.87	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.89	0.0500	10.0		98.9	70-130			
Total Xylenes	14.8	0.0250	15.0		98.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	70-130			

## Matrix Spike (2502039-MS1)

Source: E501035-03

Prepared: 01/08/25 Analyzed: 01/09/25

Benzene	5.28	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.05	0.0250	5.00	ND	101	61-133			
Toluene	5.19	0.0250	5.00	ND	104	61-130			
o-Xylene	5.03	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.00		8.00		87.5	70-130			

## Matrix Spike Dup (2502039-MSD1)

Source: E501035-03

Prepared: 01/08/25 Analyzed: 01/09/25

Benzene	5.24	0.0250	5.00	ND	105	54-133	0.784	20	
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133	1.00	20	
Toluene	5.14	0.0250	5.00	ND	103	61-130	0.895	20	
o-Xylene	4.96	0.0250	5.00	ND	99.2	63-131	1.39	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.902	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	1.06	20	
Surrogate: 4-Bromochlorobenzene-PID	6.96		8.00		87.0	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2502039-BLK1) Prepared: 01/08/25 Analyzed: 01/08/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

LCS (2502039-BS2) Prepared: 01/08/25 Analyzed: 01/09/25

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike (2502039-MS2) Source: E501035-03 Prepared: 01/08/25 Analyzed: 01/09/25

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			

Matrix Spike Dup (2502039-MSD2) Source: E501035-03 Prepared: 01/08/25 Analyzed: 01/09/25

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.5	70-130	7.85	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/10/2025 3:33:13PM

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 (2502045-BLK1)					Prepared: 01/08/25 Analyzed: 01/08/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.9		50.0		108	50-200			

LCS (2502045-BS1)					Prepared: 01/08/25 Analyzed: 01/08/25				
Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: n-Nonane	55.6		50.0		111	50-200			

Matrix Spike (2502045-MS1)					Source: E501035-04		Prepared: 01/08/25 Analyzed: 01/08/25		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			

Matrix Spike Dup (2502045-MSD1)					Source: E501035-04		Prepared: 01/08/25 Analyzed: 01/08/25		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.00756	20	
Surrogate: n-Nonane	56.4		50.0		113	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  1/10/2025 3:33:13PM
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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 (2502047-BLK1)					Prepared: 01/08/25 Analyzed: 01/08/25				
Chloride	ND	20.0							
LCS (2502047-BS1)					Prepared: 01/08/25 Analyzed: 01/08/25				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2502047-MS1)					Source: E501035-05		Prepared: 01/08/25 Analyzed: 01/08/25		
Chloride	2130	200	250	1750	149	80-120			M4
Matrix Spike Dup (2502047-MSD1)					Source: E501035-05		Prepared: 01/08/25 Analyzed: 01/08/25		
Chloride	2170	200	250	1750	166	80-120	1.92	20	M4

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/10/25 15:33

- 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

Received by OCD: 3/5/2025 12:00:21 AM

Page 62 of 62

Page 144 of 313

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: General Vehicle #228H				Address: 3122 National Parks Hwy		E 501035		23003-0002				+					
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
0849	1/6/25	Soil	1	BH05-10'		1						+					
0917				-12'		2						+					
1005				-14'		3						+					
1212				-16'		4						+					
1234				-18'		5						+					
1258				BH02-6'		6						+					
1309				-8'		7						+					
1315				-10'		8						+					
1402				BH03-7'		9						+					
1423				-9'		10						+					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Israel Iestrella and Jenna Hinkle																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.  Lab Use Only Received on ice: (Y) / N  T1 _____ T2 _____ T3 _____  AVG Temp °C 4									
Jenna Hinkle		1/7/25	7:30	Michelle Gonzales		1-7-25	0730										
Michelle Gonzales		1-7-25	1550	JLJ		1-7-25	1600										
JLJ		1-7-25	2200	Caitlin Man		1-8-25	715										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



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## Chain of Custody

Page 2 of 2

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX					
Project: <u>General Waste #2281</u>				Address: 3122 National Parks Hwy		E501035		23003-002				7					
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
1445	1/6/25	Soil	1	BH04-8'		11						+					
1505				-10'		12						+					
1521				-12'		13						+					
1544				-14'		14						+					
1550				-16'		15						x					
1617				-18'		16						+					
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: <u>Israel Iestrella and Jennastinkle</u>																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
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: 1/8/2025 8:29:07AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	01/08/25 07:15	Work Order ID:	E501035
Phone:	(972) 371-5200	Date Logged In:	01/07/25 14:50	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	01/14/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? 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: General Kehoe #228H

Work Order: E412204

Job Number: 23003-0002

Received: 1/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/8/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 1/8/25

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



Project Name: General Kehoe #228H  
Workorder: E412204  
Date Received: 1/3/2025 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/3/2025 6:30:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
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## Sample Summary

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
01/08/25 10:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG04-0'	E412204-01A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG04-1'	E412204-02A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG04-2'	E412204-03A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG04-3'	E412204-04A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG04-4'	E412204-05A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG04-5'	E412204-06A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG01-0'	E412204-07A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG01-1'	E412204-08A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG01-2'	E412204-09A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG01-3'	E412204-10A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG01-4'	E412204-11A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG01-5'	E412204-12A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG02-0'	E412204-13A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG02-1'	E412204-14A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG02-2'	E412204-15A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG02-3'	E412204-16A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG02-4'	E412204-17A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG02-5'	E412204-18A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG03-0'	E412204-19A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG03-1'	E412204-20A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG03-2'	E412204-21A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG03-3'	E412204-22A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG03-4'	E412204-23A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.
BG03-5'	E412204-24A	Soil	12/30/24	01/03/25	Glass Jar, 2 oz.





## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

**BG04-0'**

**E412204-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.3 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.8 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2501030	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>		119 %	50-200	01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2501046	
Chloride	ND	20.0	1	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG04-1'

E412204-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.0 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2501046
Chloride	1800	200	10	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG04-2'

E412204-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.4 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.9 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2501030	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>	113 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2501046	
Chloride	1980	200	10	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG04-3'

E412204-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.3 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2501046
Chloride	1740	100	5	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG04-4'

E412204-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.6 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2501046
Chloride	759	200	10	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG04-5'

E412204-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.5 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2501046
Chloride	673	200	10	01/03/25	01/03/25	





## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG01-0'

E412204-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.5 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2501030	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>		115 %	50-200	01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2501046	
Chloride	ND	20.0	1	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG01-1'

E412204-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.2 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.1 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2501030	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>	109 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2501046	
Chloride	359	100	5	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG01-2'

E412204-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.9 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2501030	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>		109 %	50-200	01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2501046	
Chloride	722	40.0	2	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG01-3'

E412204-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.3 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2501046
Chloride	744	40.0	2	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG01-4'

E412204-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.6 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2501046
Chloride	495	200	10	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG01-5'

E412204-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.8 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2501046
Chloride	457	100	5	01/03/25	01/03/25	





## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG02-0'

E412204-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.4 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
		116 %	50-200	01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2501046
Chloride	137	20.0	1	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG02-1'

E412204-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.1 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2501046
Chloride	1950	100	5	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG02-2'

E412204-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.1 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.6 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2501030	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>		117 %	50-200	01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2501046	
Chloride	1840	40.0	2	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG02-3'

E412204-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.3 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.8 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
	118 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2501046
Chloride	1640	40.0	2	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG02-4'

E412204-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.1 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/04/25	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	01/03/25	01/04/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2501046
Chloride	948	200	10	01/03/25	01/03/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG02-5'

E412204-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501028
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.4 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501030
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/04/25	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	01/03/25	01/04/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: AK		Batch: 2501046
Chloride	964	200	10	01/03/25	01/04/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG03-0'

E412204-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.3 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.2 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2501030	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/04/25	
<i>Surrogate: n-Nonane</i>	105 %	50-200		01/03/25	01/04/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2501046	
Chloride	538	200	10	01/03/25	01/04/25	





## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG03-1'

E412204-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501028	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.5 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2501030	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/04/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/04/25	
<i>Surrogate: n-Nonane</i>		119 %	50-200	01/03/25	01/04/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: AK		Batch: 2501046	
Chloride	525	40.0	2	01/03/25	01/04/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG03-2'

E412204-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501031	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.9 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2501017	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>		105 %	50-200	01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2501048	
Chloride	833	40.0	2	01/04/25	01/04/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG03-3'

E412204-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501031
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501031
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.2 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501017
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2501048
Chloride	1040	40.0	2	01/04/25	01/04/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG03-4'

E412204-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501031	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.3 %	70-130	01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2501017	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>		111 %	50-200	01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2501048	
Chloride	590	100	5	01/04/25	01/04/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/8/2025 10:24:41AM

BG03-5'

E412204-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501031	
Benzene	ND	0.0250	1	01/03/25	01/04/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/04/25	
Toluene	ND	0.0250	1	01/03/25	01/04/25	
o-Xylene	ND	0.0250	1	01/03/25	01/04/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/04/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/04/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	01/03/25	01/04/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501031	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/04/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.1 %	70-130	01/03/25	01/04/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2501017	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>		106 %	50-200	01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2501048	
Chloride	583	100	5	01/04/25	01/04/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2501028-BLK1) Prepared: 01/03/25 Analyzed: 01/03/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.99		8.00		87.4	70-130			

LCS (2501028-BS1) Prepared: 01/03/25 Analyzed: 01/03/25

Benzene	4.79	0.0250	5.00		95.9	70-130			
Ethylbenzene	4.79	0.0250	5.00		95.7	70-130			
Toluene	4.84	0.0250	5.00		96.8	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
p,m-Xylene	9.76	0.0500	10.0		97.6	70-130			
Total Xylenes	14.5	0.0250	15.0		96.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

LCS Dup (2501028-BSD1) Prepared: 01/03/25 Analyzed: 01/03/25

Benzene	4.76	0.0250	5.00		95.2	70-130	0.761	20	
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130	0.756	20	
Toluene	4.80	0.0250	5.00		96.1	70-130	0.746	20	
o-Xylene	4.74	0.0250	5.00		94.8	70-130	0.780	20	
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130	0.602	20	
Total Xylenes	14.4	0.0250	15.0		96.3	70-130	0.661	20	
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2501031-BLK1) Prepared: 01/03/25 Analyzed: 01/03/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.05		8.00		101	70-130			

LCS (2501031-BS1) Prepared: 01/03/25 Analyzed: 01/06/25

Benzene	5.53	0.0250	5.00		111	70-130			
Ethylbenzene	5.34	0.0250	5.00		107	70-130			
Toluene	5.45	0.0250	5.00		109	70-130			
o-Xylene	5.27	0.0250	5.00		105	70-130			
p,m-Xylene	10.9	0.0500	10.0		109	70-130			
Total Xylenes	16.1	0.0250	15.0		108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.88		8.00		85.9	70-130			

LCS Dup (2501031-BSD1) Prepared: 01/03/25 Analyzed: 01/06/25

Benzene	5.45	0.0250	5.00		109	70-130	1.32	20	
Ethylbenzene	5.21	0.0250	5.00		104	70-130	2.43	20	
Toluene	5.35	0.0250	5.00		107	70-130	1.89	20	
o-Xylene	5.16	0.0250	5.00		103	70-130	2.15	20	
p,m-Xylene	10.6	0.0500	10.0		106	70-130	2.74	20	
Total Xylenes	15.7	0.0250	15.0		105	70-130	2.54	20	
Surrogate: 4-Bromochlorobenzene-PID	6.80		8.00		85.0	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2501028-BLK1) Prepared: 01/03/25 Analyzed: 01/03/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.3	70-130			

LCS (2501028-BS2) Prepared: 01/03/25 Analyzed: 01/03/25

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			

LCS Dup (2501028-BSD2) Prepared: 01/03/25 Analyzed: 01/03/25

Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.5	70-130	0.816	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2501031-BLK1) Prepared: 01/03/25 Analyzed: 01/03/25

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

LCS (2501031-BS2) Prepared: 01/03/25 Analyzed: 01/03/25

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0		80.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.6	70-130			

LCS Dup (2501031-BSD2) Prepared: 01/03/25 Analyzed: 01/03/25

Gasoline Range Organics (C6-C10)	38.2	20.0	50.0		76.5	70-130	5.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2501017-BLK1)					Prepared: 01/03/25 Analyzed: 01/03/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			

LCS (2501017-BS1)					Prepared: 01/03/25 Analyzed: 01/03/25				
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			

LCS Dup (2501017-BSD1)					Prepared: 01/03/25 Analyzed: 01/03/25				
Diesel Range Organics (C10-C28)	276	25.0	250		110	38-132	4.38	20	
Surrogate: n-Nonane	52.1		50.0		104	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2501030-BLK1)					Prepared: 01/03/25 Analyzed: 01/03/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS (2501030-BS1)					Prepared: 01/03/25 Analyzed: 01/03/25				
Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike (2501030-MS1)					Source: E412204-03		Prepared: 01/03/25 Analyzed: 01/03/25		
Diesel Range Organics (C10-C28)	306	25.0	250	ND	122	38-132			
Surrogate: n-Nonane	55.4		50.0		111	50-200			

Matrix Spike Dup (2501030-MSD1)					Source: E412204-03		Prepared: 01/03/25 Analyzed: 01/03/25		
Diesel Range Organics (C10-C28)	301	25.0	250	ND	121	38-132	1.40	20	
Surrogate: n-Nonane	55.5		50.0		111	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2501046-BLK1)					Prepared: 01/03/25 Analyzed: 01/03/25				
Chloride	ND	20.0							
LCS (2501046-BS1)					Prepared: 01/03/25 Analyzed: 01/03/25				
Chloride	253	20.0	250		101	90-110			
LCS Dup (2501046-BSD1)					Prepared: 01/03/25 Analyzed: 01/03/25				
Chloride	253	20.0	250		101	90-110	0.102	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2025 10:24:41AM

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 (2501048-BLK1)					Prepared: 01/04/25 Analyzed: 01/04/25				
Chloride	ND	20.0							
LCS (2501048-BS1)					Prepared: 01/04/25 Analyzed: 01/04/25				
Chloride	252	20.0	250		101	90-110			
LCS Dup (2501048-BSD1)					Prepared: 01/04/25 Analyzed: 01/04/25				
Chloride	253	20.0	250		101	90-110	0.545	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:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/08/25 10:24

- 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 3

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: General Kehoe #228H				Address: 3122 National Parks Hwy		E412204 23003-0002					X	X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information										Analysis and Method				EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
926	12/30/24	Soil	1	BG04-0'			1						X					
928				1'			2						X					
932				2'			3						X					
936				3'			4						X					
941				4'			5						X					
948				5'			6						X					
1000				BG01-0'			7						X					
1005				1'			8						X					
1007				2'			9						X					
1008				3'			10						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Israel Estrella / Oluwale Adedun / Jenna Hinkle																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



envirotech



## Chain of Custody

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: General Lease #2284				Address: 3122 National Parks Hwy		E412204	23003.0002				X	X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Remarks			
1009	12/30/24	Soil	1	BG01-4'		11						X						
1013				↓ 5'		12						X						
1027				BG02-0'		13						X						
1029				1'		14						X						
1031				2'		15						X						
1033				3'		16						X						
1034				4'		17						X						
1040				↓ 5'		18						X						
1157				BG03-0'		19						X						
1205				↓ 1'		20						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Israel Estrella / <u>Olumale Adenito / Sena Hinkle</u>																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on 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 <u>4</u>										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



envirotech



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: General Refuse #2284				Address: 3122 National Parks Hwy				E 412204				23003-002				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										
1207	12/30/24	Soil	1	BG03-2'		21						X															
1208				3'		22						X															
1210				4'		23						X															
1215				5'		24						X															
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																											
Sampled by: Israel Estrella / Private Admittance / Sewer Hunker.																											
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"/> 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: 1/3/2025 7:46:44AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	01/03/25 06:30	Work Order ID:	E412204
Phone:	(972) 371-5200	Date Logged In:	12/31/24 14:32	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	01/09/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

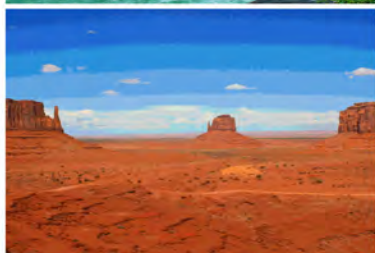
Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E501005

Job Number: 23003-0002

Received: 1/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/6/25

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 1/6/25

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



Project Name: General Kehoe #228H  
Workorder: E501005  
Date Received: 1/3/2025 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/3/2025 6:30:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 01/06/25 12:42
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01 - 6'	E501005-01A	Soil	12/31/24	01/03/25	Glass Jar, 2 oz.
BG02 - 6'	E501005-02A	Soil	12/31/24	01/03/25	Glass Jar, 2 oz.
BG03 - 6'	E501005-03A	Soil	12/31/24	01/03/25	Glass Jar, 2 oz.
BG04 - 6'	E501005-04A	Soil	12/31/24	01/03/25	Glass Jar, 2 oz.



## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	<b>Reported:</b> 1/6/2025 12:42:51PM
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### BG01 - 6'

### E501005-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501027	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.6 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2501027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.1 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2501039	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>	118 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2501048	
Chloride	625	200	10	01/04/25	01/04/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/6/2025 12:42:51PM

## BG02 - 6'

## E501005-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2501027	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.3 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2501027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2501039	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2501048	
Chloride	1040	200	10	01/04/25	01/04/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/6/2025 12:42:51PM

## BG03 - 6'

## E501005-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501027
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2501027
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2501039
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2501048
Chloride	611	200	10	01/04/25	01/04/25	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
1/6/2025 12:42:51PM

## BG04 - 6'

## E501005-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2501027	
Benzene	ND	0.0250	1	01/03/25	01/03/25	
Ethylbenzene	ND	0.0250	1	01/03/25	01/03/25	
Toluene	ND	0.0250	1	01/03/25	01/03/25	
o-Xylene	ND	0.0250	1	01/03/25	01/03/25	
p,m-Xylene	ND	0.0500	1	01/03/25	01/03/25	
Total Xylenes	ND	0.0250	1	01/03/25	01/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2501027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/03/25	01/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		01/03/25	01/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2501039	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/03/25	01/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/03/25	01/03/25	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		01/03/25	01/03/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2501048	
Chloride	744	200	10	01/04/25	01/04/25	



## QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/6/2025 12:42:51PM

## Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2501027-BLK1)

Prepared: 01/03/25 Analyzed: 01/03/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.7	70-130			

## LCS (2501027-BS1)

Prepared: 01/03/25 Analyzed: 01/03/25

Benzene	4.82	0.0250	5.00		96.3	70-130			
Ethylbenzene	4.78	0.0250	5.00		95.5	70-130			
Toluene	4.85	0.0250	5.00		96.9	70-130			
o-Xylene	4.80	0.0250	5.00		96.0	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.5	0.0250	15.0		96.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.10		8.00		88.8	70-130			

## LCS Dup (2501027-BSD1)

Prepared: 01/03/25 Analyzed: 01/03/25

Benzene	4.98	0.0250	5.00		99.5	70-130	3.30	20	
Ethylbenzene	4.93	0.0250	5.00		98.6	70-130	3.22	20	
Toluene	5.01	0.0250	5.00		100	70-130	3.29	20	
o-Xylene	4.93	0.0250	5.00		98.6	70-130	2.73	20	
p,m-Xylene	10.0	0.0500	10.0		100	70-130	3.08	20	
Total Xylenes	14.9	0.0250	15.0		99.6	70-130	2.97	20	
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/6/2025 12:42:51PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2501027-BLK1) Prepared: 01/03/25 Analyzed: 01/03/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

LCS (2501027-BS2) Prepared: 01/03/25 Analyzed: 01/03/25

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

LCS Dup (2501027-BSD2) Prepared: 01/03/25 Analyzed: 01/03/25

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.4	70-130	0.164	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.77		8.00		97.1	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/6/2025 12:42:51PM

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 (2501039-BLK1)					Prepared: 01/03/25 Analyzed: 01/03/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.5		50.0		111	50-200			

LCS (2501039-BS1)					Prepared: 01/03/25 Analyzed: 01/03/25				
Diesel Range Organics (C10-C28)	307	25.0	250		123	38-132			
Surrogate: n-Nonane	56.1		50.0		112	50-200			

Matrix Spike (2501039-MS1)					Source: E501002-01		Prepared: 01/03/25 Analyzed: 01/03/25		
Diesel Range Organics (C10-C28)	509	25.0	250	201	123	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike Dup (2501039-MSD1)					Source: E501002-01		Prepared: 01/03/25 Analyzed: 01/03/25		
Diesel Range Organics (C10-C28)	579	25.0	250	201	151	38-132	12.9	20	M4
Surrogate: n-Nonane	58.3		50.0		117	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  1/6/2025 12:42:51PM
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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 (2501048-BLK1)					Prepared: 01/04/25 Analyzed: 01/04/25				
Chloride	ND	20.0							
LCS (2501048-BS1)					Prepared: 01/04/25 Analyzed: 01/04/25				
Chloride	252	20.0	250		101	90-110			
LCS Dup (2501048-BSD1)					Prepared: 01/04/25 Analyzed: 01/04/25				
Chloride	253	20.0	250		101	90-110	0.545	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:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/06/25 12:42

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

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

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



## Page 1 of 1



## Envirotech Analytical Laboratory

Printed: 1/3/2025 8:01:55AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	01/03/25 06:30	Work Order ID:	E501005
Phone:	(972) 371-5200	Date Logged In:	01/02/25 15:08	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	01/09/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

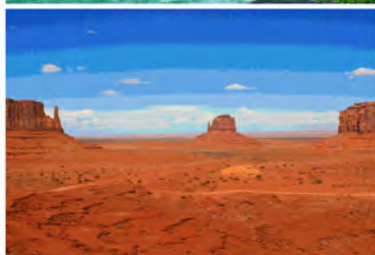
Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E412146

Job Number: 23003-0002

Received: 12/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/23/24

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: 12/23/24

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



Project Name: General Kehoe #228H  
Workorder: E412146  
Date Received: 12/19/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/19/2024 7:45:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/23/24 08:56
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-4'	E412146-01A	Soil	12/17/24	12/19/24	Glass Jar, 2 oz.
FS03-4'	E412146-02A	Soil	12/17/24	12/19/24	Glass Jar, 2 oz.



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
12/23/2024 8:56:00AM

**FS01-4'**

**E412146-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2451067
Benzene	ND	0.0250	1	12/19/24	12/19/24	
Ethylbenzene	ND	0.0250	1	12/19/24	12/19/24	
Toluene	ND	0.0250	1	12/19/24	12/19/24	
o-Xylene	ND	0.0250	1	12/19/24	12/19/24	
p,m-Xylene	ND	0.0500	1	12/19/24	12/19/24	
Total Xylenes	ND	0.0250	1	12/19/24	12/19/24	
<i>Surrogate: Bromofluorobenzene</i>		119 %	70-130	12/19/24	12/19/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	12/19/24	12/19/24	
<i>Surrogate: Toluene-d8</i>		111 %	70-130	12/19/24	12/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2451067
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/24	12/19/24	
<i>Surrogate: Bromofluorobenzene</i>		119 %	70-130	12/19/24	12/19/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	12/19/24	12/19/24	
<i>Surrogate: Toluene-d8</i>		111 %	70-130	12/19/24	12/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2451073
Diesel Range Organics (C10-C28)	314	25.0	1	12/19/24	12/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/24	12/19/24	
<i>Surrogate: n-Nonane</i>		113 %	50-200	12/19/24	12/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2451074
Chloride	576	200	10	12/19/24	12/19/24	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
12/23/2024 8:56:00AM

FS03-4'

E412146-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2451067
Benzene	ND	0.0250	1	12/19/24	12/19/24	
Ethylbenzene	0.0715	0.0250	1	12/19/24	12/19/24	
Toluene	0.0360	0.0250	1	12/19/24	12/19/24	
o-Xylene	0.444	0.0250	1	12/19/24	12/19/24	
p,m-Xylene	1.51	0.0500	1	12/19/24	12/19/24	
Total Xylenes	1.95	0.0250	1	12/19/24	12/19/24	
Surrogate: Bromofluorobenzene	125 %	70-130		12/19/24	12/19/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		12/19/24	12/19/24	
Surrogate: Toluene-d8	118 %	70-130		12/19/24	12/19/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2451067
Gasoline Range Organics (C6-C10)	138	20.0	1	12/19/24	12/19/24	
Surrogate: Bromofluorobenzene	125 %	70-130		12/19/24	12/19/24	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		12/19/24	12/19/24	
Surrogate: Toluene-d8	118 %	70-130		12/19/24	12/19/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2451073
Diesel Range Organics (C10-C28)	1130	25.0	1	12/19/24	12/19/24	
Oil Range Organics (C28-C36)	161	50.0	1	12/19/24	12/19/24	
Surrogate: n-Nonane	130 %	50-200		12/19/24	12/19/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2451074
Chloride	2300	200	10	12/19/24	12/19/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:  12/23/2024 8:56:00AM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451067-BLK1) Prepared: 12/19/24 Analyzed: 12/19/24

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	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.568		0.500		114	70-130			

LCS (2451067-BS1) Prepared: 12/19/24 Analyzed: 12/19/24

Benzene	2.38	0.0250	2.50		95.2	70-130			
Ethylbenzene	2.51	0.0250	2.50		100	70-130			
Toluene	2.47	0.0250	2.50		98.9	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.23	0.0500	5.00		104	70-130			
Total Xylenes	7.84	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.600		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.559		0.500		112	70-130			

LCS Dup (2451067-BSD1) Prepared: 12/19/24 Analyzed: 12/19/24

Benzene	2.25	0.0250	2.50		90.1	70-130	5.51	23	
Ethylbenzene	2.41	0.0250	2.50		96.3	70-130	4.31	27	
Toluene	2.35	0.0250	2.50		94.0	70-130	5.08	24	
o-Xylene	2.44	0.0250	2.50		97.7	70-130	6.82	27	
p,m-Xylene	4.89	0.0500	5.00		97.8	70-130	6.57	27	
Total Xylenes	7.34	0.0250	7.50		97.8	70-130	6.65	27	
Surrogate: Bromofluorobenzene	0.599		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.459		0.500		91.8	70-130			
Surrogate: Toluene-d8	0.560		0.500		112	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:  12/23/2024 8:56:00AM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451067-BLK1) Prepared: 12/19/24 Analyzed: 12/19/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.469		0.500		93.8	70-130			
Surrogate: Toluene-d8	0.568		0.500		114	70-130			

LCS (2451067-BS2) Prepared: 12/19/24 Analyzed: 12/19/24

Gasoline Range Organics (C6-C10)	60.8	20.0	50.0		122	70-130			
Surrogate: Bromofluorobenzene	0.609		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.1	70-130			
Surrogate: Toluene-d8	0.582		0.500		116	70-130			

LCS Dup (2451067-BSD2) Prepared: 12/19/24 Analyzed: 12/19/24

Gasoline Range Organics (C6-C10)	60.9	20.0	50.0		122	70-130	0.241	20	
Surrogate: Bromofluorobenzene	0.625		0.500		125	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.570		0.500		114	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/23/2024 8:56:00AM

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 (2451073-BLK1)					Prepared: 12/19/24 Analyzed: 12/19/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.1		50.0		110	50-200			

LCS (2451073-BS1)					Prepared: 12/19/24 Analyzed: 12/19/24				
Diesel Range Organics (C10-C28)	292	25.0	250		117	38-132			
Surrogate: n-Nonane	54.0		50.0		108	50-200			

Matrix Spike (2451073-MS1)					Source: E412146-01		Prepared: 12/19/24 Analyzed: 12/19/24		
Diesel Range Organics (C10-C28)	520	25.0	250	314	82.2	38-132			
Surrogate: n-Nonane	55.1		50.0		110	50-200			

Matrix Spike Dup (2451073-MSD1)					Source: E412146-01		Prepared: 12/19/24 Analyzed: 12/19/24		
Diesel Range Organics (C10-C28)	529	25.0	250	314	85.7	38-132	1.63	20	
Surrogate: n-Nonane	55.8		50.0		112	50-200			





QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/23/2024 8:56:00AM

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 (2451074-BLK1)					Prepared: 12/19/24 Analyzed: 12/19/24				
Chloride	ND	20.0							
LCS (2451074-BS1)					Prepared: 12/19/24 Analyzed: 12/19/24				
Chloride	257	20.0	250		103	90-110			
LCS Dup (2451074-BSD1)					Prepared: 12/19/24 Analyzed: 12/19/24				
Chloride	257	20.0	250		103	90-110	0.0397	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:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/23/24 08:56

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

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

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



<b>Client Information</b>				<b>Invoice Information</b>				<b>Lab Use Only</b>				<b>TAT</b>				<b>State</b>										
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX							
Project: General behoe # 228 +1				Address: 3122 National Parks Hwy				E412146		23003-0002					+	+										
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220				<b>Analysis and Method</b>										<b>EPA Program</b>								
Address: 3122 National Parks Hwy				Phone: 575-988-0055														SDWA			CWA			RCRA		
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														Compliance			Y			or		
Phone: 575-988-0055				Miscellaneous:														PWSID #								
Email: agiovengo@ensolum.com																										
<b>Sample Information</b>																										
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	Remarks										
1314	12/17/24	Soil	1	FS01-41			1						+													
1319	12/17/24	Soil	1	FS03-41			2						+													
<b>Additional Instructions:</b> Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																										
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																										
Sampled by: Israel Estrella and Jenna Thibault																										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	<div>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.</div> <div>Lab Use Only</div> <div>Received on ice: <input checked="" type="radio"/> N</div> <div>T1 _____ T2 _____ T3 _____</div> <div>AVG Temp °C 4</div>																		
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: 12/19/2024 12:12:21PM

## 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:	12/19/24 07:45	Work Order ID:	E412146
Phone:	(972) 371-5200	Date Logged In:	12/18/24 16:20	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	12/30/24 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: General Kehoe #228H

Work Order: E412167

Job Number: 23003-0002

Received: 12/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/31/24

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: 12/31/24

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



Project Name: General Kehoe #228H  
Workorder: E412167  
Date Received: 12/20/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/20/2024 8:00:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
12/31/24 09:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS04-4'	E412167-01A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS05-4'	E412167-02A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS02-5'	E412167-03A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS06-4'	E412167-04A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS07-4'	E412167-05A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS09-4'	E412167-06A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS10-4'	E412167-07A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS11-4'	E412167-08A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS12-4'	E412167-09A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS13-4'	E412167-10A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS14-4'	E412167-11A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS15-4'	E412167-12A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS16-4'	E412167-13A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS17-4'	E412167-14A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS18-4'	E412167-15A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS19-4'	E412167-16A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS20-4'	E412167-17A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS21-4'	E412167-18A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS22-4'	E412167-19A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS23-4'	E412167-20A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS24-4'	E412167-21A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS25-4'	E412167-22A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.
FS26-4'	E412167-23A	Soil	12/18/24	12/20/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS04-4'  
E412167-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	86.7 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	102 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	2410	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS05-4'  
E412167-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	86.4	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	102 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	3260	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS02-5'  
E412167-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.1 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	193	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	54.5	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	105 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	3810	200	10	12/20/24	12/20/24	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
12/31/2024 9:54:13AM

FS06-4'

E412167-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	0.0778	0.0500	1	12/20/24	12/21/24	
Total Xylenes	0.0778	0.0250	1	12/20/24	12/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.5 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	102	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	4960	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS07-4'

E412167-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	0.0261	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	0.0926	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	0.295	0.0500	1	12/20/24	12/21/24	
Total Xylenes	0.387	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.3 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	442	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	80.1	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	105 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	1890	200	10	12/20/24	12/20/24	





## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
12/31/2024 9:54:13AM

FS09-4'

E412167-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
<i>Surrogate: n-Nonane</i>						
	97.8 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	647	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS10-4'

E412167-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	117	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	99.9 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	4220	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS11-4'  
E412167-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	97.0 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	34.5	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	103 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	1430	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS12-4'  
E412167-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	98.8 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	101 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	2910	200	10	12/20/24	12/20/24	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
12/31/2024 9:54:13AM

FS13-4'

E412167-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	2030	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS14-4'

E412167-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	96.9 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	102 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	1100	200	10	12/20/24	12/20/24	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
12/31/2024 9:54:13AM

FS15-4'

E412167-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	2420	200	10	12/20/24	12/20/24	





## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
12/31/2024 9:54:13AM

FS16-4'

E412167-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
<i>Surrogate: n-Nonane</i>						
	98.3 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	1940	200	10	12/20/24	12/20/24	



## Sample Data

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

Project Name: General Kehoe #228H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
12/31/2024 9:54:13AM

FS17-4'

E412167-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
<i>Surrogate: n-Nonane</i>						
	99.2 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	1340	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS18-4'  
E412167-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	95.6 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.7 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	97.3 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	2150	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS19-4'

E412167-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	95.8 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	100 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	2650	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS20-4'  
E412167-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	95.4 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	104 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	1470	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS21-4'  
E412167-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	98.9 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	2260	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS22-4'

E412167-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	98.5 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	1740	200	10	12/20/24	12/20/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS23-4'

E412167-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	96.9 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.4 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451097	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	107 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451095	
Chloride	1050	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS24-4'

E412167-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451088	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	89.1 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.3 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451100	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/24/24	
Surrogate: n-Nonane	110 %	50-200		12/20/24	12/24/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451084	
Chloride	1290	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS25-4'

E412167-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451088	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	89.6 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.6 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451100	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	105 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451084	
Chloride	1280	200	10	12/20/24	12/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/31/2024 9:54:13AM
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FS26-4'

E412167-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451088	
Benzene	ND	0.0250	1	12/20/24	12/21/24	
Ethylbenzene	ND	0.0250	1	12/20/24	12/21/24	
Toluene	ND	0.0250	1	12/20/24	12/21/24	
o-Xylene	ND	0.0250	1	12/20/24	12/21/24	
p,m-Xylene	ND	0.0500	1	12/20/24	12/21/24	
Total Xylenes	ND	0.0250	1	12/20/24	12/21/24	
Surrogate: 4-Bromochlorobenzene-PID	88.8 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2451088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/20/24	12/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		12/20/24	12/21/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2451100	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/20/24	12/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	12/20/24	12/21/24	
Surrogate: n-Nonane	110 %	50-200		12/20/24	12/21/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2451084	
Chloride	886	200	10	12/20/24	12/20/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2451088-BLK1) Prepared: 12/20/24 Analyzed: 12/21/24

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	6.77		8.00		84.7	70-130			

LCS (2451088-BS1) Prepared: 12/20/24 Analyzed: 12/21/24

Benzene	5.65	0.0250	5.00		113	70-130			
Ethylbenzene	5.36	0.0250	5.00		107	70-130			
Toluene	5.52	0.0250	5.00		110	70-130			
o-Xylene	5.33	0.0250	5.00		107	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.2	0.0250	15.0		108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.04		8.00		88.1	70-130			

LCS Dup (2451088-BSD1) Prepared: 12/20/24 Analyzed: 12/21/24

Benzene	5.21	0.0250	5.00		104	70-130	7.97	20	
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130	7.64	20	
Toluene	5.11	0.0250	5.00		102	70-130	7.89	20	
o-Xylene	4.94	0.0250	5.00		98.8	70-130	7.57	20	
p,m-Xylene	10.0	0.0500	10.0		100	70-130	7.61	20	
Total Xylenes	15.0	0.0250	15.0		99.9	70-130	7.60	20	
Surrogate: 4-Bromochlorobenzene-PID	6.91		8.00		86.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451090-BLK1) Prepared: 12/20/24 Analyzed: 12/21/24

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	7.29		8.00		91.1	70-130			

LCS (2451090-BS1) Prepared: 12/20/24 Analyzed: 12/21/24

Benzene	5.30	0.0250	5.00		106	70-130			
Ethylbenzene	5.07	0.0250	5.00		101	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
o-Xylene	5.06	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.29		8.00		91.2	70-130			

LCS Dup (2451090-BSD1) Prepared: 12/20/24 Analyzed: 12/21/24

Benzene	5.26	0.0250	5.00		105	70-130	0.829	20	
Ethylbenzene	5.03	0.0250	5.00		101	70-130	0.819	20	
Toluene	5.16	0.0250	5.00		103	70-130	0.759	20	
o-Xylene	5.02	0.0250	5.00		100	70-130	0.836	20	
p,m-Xylene	10.2	0.0500	10.0		102	70-130	0.756	20	
Total Xylenes	15.3	0.0250	15.0		102	70-130	0.782	20	
Surrogate: 4-Bromochlorobenzene-PID	7.22		8.00		90.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451088-BLK1) Prepared: 12/20/24 Analyzed: 12/21/24

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

LCS (2451088-BS2) Prepared: 12/20/24 Analyzed: 12/21/24

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0		84.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

LCS Dup (2451088-BSD2) Prepared: 12/20/24 Analyzed: 12/21/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0		88.4	70-130	4.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2451090-BLK1) Prepared: 12/20/24 Analyzed: 12/21/24

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

LCS (2451090-BS2) Prepared: 12/20/24 Analyzed: 12/21/24

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0		91.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

LCS Dup (2451090-BSD2) Prepared: 12/20/24 Analyzed: 12/21/24

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.6	70-130	3.52	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

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 (2451097-BLK1) Prepared: 12/20/24 Analyzed: 12/21/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.8		50.0		102	50-200			

LCS (2451097-BS1) Prepared: 12/20/24 Analyzed: 12/21/24

Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

Matrix Spike (2451097-MS1) Source: E412167-06 Prepared: 12/20/24 Analyzed: 12/21/24

Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	38-132			
Surrogate: n-Nonane	54.3		50.0		109	50-200			

Matrix Spike Dup (2451097-MSD1) Source: E412167-06 Prepared: 12/20/24 Analyzed: 12/21/24

Diesel Range Organics (C10-C28)	271	25.0	250	ND	109	38-132	5.62	20	
Surrogate: n-Nonane	51.1		50.0		102	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

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 (2451100-BLK1) Prepared: 12/20/24 Analyzed: 12/20/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.7		50.0		109	50-200			

LCS (2451100-BS1) Prepared: 12/20/24 Analyzed: 12/20/24

Diesel Range Organics (C10-C28)	281	25.0	250		112	38-132			
Surrogate: n-Nonane	55.9		50.0		112	50-200			

Matrix Spike (2451100-MS1) Source: E412168-01 Prepared: 12/20/24 Analyzed: 12/20/24

Diesel Range Organics (C10-C28)	4920	50.0	250	4090	332	38-132			M4
Surrogate: n-Nonane	55.8		50.0		112	50-200			

Matrix Spike Dup (2451100-MSD1) Source: E412168-01 Prepared: 12/20/24 Analyzed: 12/24/24

Diesel Range Organics (C10-C28)	4720	50.0	250	4090	250	38-132	4.21	20	M4
Surrogate: n-Nonane	57.8		50.0		116	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2451084-BLK1)					Prepared: 12/20/24 Analyzed: 12/20/24				
Chloride	ND	20.0							
LCS (2451084-BS1)					Prepared: 12/20/24 Analyzed: 12/20/24				
Chloride	257	20.0	250		103	90-110			
LCS Dup (2451084-BSD1)					Prepared: 12/20/24 Analyzed: 12/20/24				
Chloride	257	20.0	250		103	90-110	0.312	20	



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/2024 9:54:13AM

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 (2451095-BLK1)					Prepared: 12/20/24 Analyzed: 12/20/24				
Chloride	ND	20.0							
LCS (2451095-BS1)					Prepared: 12/20/24 Analyzed: 12/20/24				
Chloride	255	20.0	250		102	90-110			
LCS Dup (2451095-BSD1)					Prepared: 12/20/24 Analyzed: 12/20/24				
Chloride	254	20.0	250		102	90-110	0.335	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:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/31/24 09:54

- 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 3

Client Information				Invoice Information		Lab Use Only		TAT				State								
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#		1D		2D		3D		Std						
Project: General Kehoe #228H				Address: 3122 National Parks Hwy		E412167		23003-0002						X						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220										NM CO UT TX						
Address: 3122 National Parks Hwy				Phone: 575-988-0055										X						
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																
Phone: 575-988-0055				Miscellaneous:																
Email: agiovengo@ensolum.com																				
Sample Information										Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA			
1024	12/18/24	soil	1	FS04-4'		1						X								
1026				05-4'		2						X								
1141				02-5'		3						X								
1345				06-4'		4						X								
1350				07		5						X								
1401				09		6						X								
1405				10		7						X								
1408				11		8						X								
1411				12		9						X								
1413				13		10						X								
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by: Israel Estrella / Jenna H																				
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: (V) 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.																				





## Chain of Custody

Page 2 of 3

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project: General Kehoe #2284				Address: 3122 National Parks Hwy		E412167	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	
1417	12/18/24	SOIL	1	FS14-A'		11						X						
1420				15		12						X						
1422				14		13						X						
1425				17		14						X						
1431				18		15						X						
1433				19		16						X						
1434				20		17						X						
1440				21		18						X						
1443				22		19						X						
1445				23		20						X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sampled by: Israel Estrella / Jenna H																		
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.																		





Client Information				Invoice Information				Lab Use Only				TAT				State				
Client: Matador Production Company				Company: Ensolum LLC				Lab WO# E412167				Job Number 23007-0002				NM CO UT TX				
Project: General Kahoe #228H				Address: 3122 National Parks Hwy								1D 2D 3D Std 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: 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 #				
Sample Information																Remarks				
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						
1447	12/18/24	soil	1	FS 24-91		21						X								
1448				↓ 25 ↓		22						X								
1426				↓ 24 ↓		23						X								
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by: Israel Estrella / Senna H																				
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"/> 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: 12/20/2024 10:11:30AM

## 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:	12/20/24 08:00	Work Order ID:	E412167
Phone:	(972) 371-5200	Date Logged In:	12/19/24 16:28	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	12/31/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: General Kehoe #228H

Work Order: E412180

Job Number: 23003-0002

Received: 12/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/30/24

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: 12/30/24

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



Project Name: General Kehoe #228H  
Workorder: E412180  
Date Received: 12/23/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/23/2024 8:30:00AM, under the Project Name: General Kehoe #228H.

The analytical test results summarized in this report with the Project Name: General Kehoe #228H 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/30/24 16:02
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS08-5'	E412180-01A	Soil	12/19/24	12/23/24	Glass Jar, 2 oz.





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: General Kehoe #228H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/30/2024 4:02:36PM
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FS08-5'  
E412180-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2452019	
Benzene	ND	0.0250	1	12/23/24	12/24/24	
Ethylbenzene	ND	0.0250	1	12/23/24	12/24/24	
Toluene	ND	0.0250	1	12/23/24	12/24/24	
o-Xylene	ND	0.0250	1	12/23/24	12/24/24	
p,m-Xylene	ND	0.0500	1	12/23/24	12/24/24	
Total Xylenes	ND	0.0250	1	12/23/24	12/24/24	
Surrogate: 4-Bromochlorobenzene-PID	91.2 %	70-130		12/23/24	12/24/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2452019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/23/24	12/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.6 %	70-130		12/23/24	12/24/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2452018	
Diesel Range Organics (C10-C28)	209	25.0	1	12/23/24	12/23/24	
Oil Range Organics (C28-C36)	56.6	50.0	1	12/23/24	12/23/24	
Surrogate: n-Nonane	107 %	50-200		12/23/24	12/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2452015	
Chloride	5520	200	10	12/23/24	12/23/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/30/2024 4:02:36PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2452019-BLK1) Prepared: 12/23/24 Analyzed: 12/24/24

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	7.26		8.00		90.8	70-130			

LCS (2452019-BS1) Prepared: 12/23/24 Analyzed: 12/24/24

Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.5	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
o-Xylene	4.87	0.0250	5.00		97.3	70-130			
p,m-Xylene	9.88	0.0500	10.0		98.8	70-130			
Total Xylenes	14.7	0.0250	15.0		98.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130			

LCS Dup (2452019-BSD1) Prepared: 12/23/24 Analyzed: 12/24/24

Benzene	5.17	0.0250	5.00		103	70-130	1.36	20	
Ethylbenzene	4.93	0.0250	5.00		98.6	70-130	1.11	20	
Toluene	5.06	0.0250	5.00		101	70-130	1.27	20	
o-Xylene	4.92	0.0250	5.00		98.4	70-130	1.17	20	
p,m-Xylene	9.99	0.0500	10.0		99.9	70-130	1.05	20	
Total Xylenes	14.9	0.0250	15.0		99.4	70-130	1.09	20	
Surrogate: 4-Bromochlorobenzene-PID	7.06		8.00		88.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/30/2024 4:02:36PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2452019-BLK1) Prepared: 12/23/24 Analyzed: 12/24/24

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

LCS (2452019-BS2) Prepared: 12/23/24 Analyzed: 12/24/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			

LCS Dup (2452019-BSD2) Prepared: 12/23/24 Analyzed: 12/24/24

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.4	70-130	1.04	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/30/2024 4:02:36PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2452018-BLK1) Prepared: 12/23/24 Analyzed: 12/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.4		50.0		107	50-200			

LCS (2452018-BS1) Prepared: 12/23/24 Analyzed: 12/23/24

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	53.7		50.0		107	50-200			

Matrix Spike (2452018-MS1) Source: E412181-05 Prepared: 12/23/24 Analyzed: 12/23/24

Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			

Matrix Spike Dup (2452018-MSD1) Source: E412181-05 Prepared: 12/23/24 Analyzed: 12/23/24

Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132	0.372	20	
Surrogate: n-Nonane	52.4		50.0		105	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	General Kehoe #228H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/30/2024 4:02:36PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2452015-BLK1)					Prepared: 12/23/24 Analyzed: 12/23/24				
Chloride	ND	20.0							
LCS (2452015-BS1)					Prepared: 12/23/24 Analyzed: 12/23/24				
Chloride	253	20.0	250		101	90-110			
LCS Dup (2452015-BSD1)					Prepared: 12/23/24 Analyzed: 12/23/24				
Chloride	255	20.0	250		102	90-110	0.872	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:	General Kehoe #228H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/30/24 16:02

- 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.



[illegible]



## Envirotech Analytical Laboratory

Printed: 12/23/2024 9:42:31AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	12/23/24 08:30	Work Order ID:	E412180
Phone:	(972) 371-5200	Date Logged In:	12/23/24 09:38	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	01/02/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

### Email Correspondence

---

**From:** [Hamlet, Robert, EMNRD](#)  
**To:** [Ashley Giovengo](#)  
**Cc:** [Jason Touchet](#); [arsenio.jones@matadorresources.com](mailto:arsenio.jones@matadorresources.com); [Cole Burton](#); [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#)  
**Subject:** (Extension Approval) - General Kehoe 228H - Incident Number nAPP2420927733  
**Date:** Friday, October 18, 2024 3:17:24 PM  
**Attachments:** [image006.png](#)  
[image007.png](#)  
[image008.png](#)

---

[ \*\*EXTERNAL EMAIL\*\* ]

RE: Incident #NAPP2420927733

**Ashley,**

Your request for a 90 day extension to **January 16th, 2025** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

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



---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Friday, October 18, 2024 3:02 PM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** FW: [EXTERNAL] Extension Request - General Kehoe 228H - Incident Number nAPP2420927733

---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Friday, October 18, 2024 2:58 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Jason Touchet <[jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)>; Arsenio Jones <[arsenio.jones@matadorresources.com](mailto:arsenio.jones@matadorresources.com)>  
**Cc:** Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>  
**Subject:** [EXTERNAL] Extension Request - General Kehoe 228H - Incident Number nAPP2420927733

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

All,

Matador Production Company (Matador) is requesting an extension for the current deadline of October 24, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the General Kehoe 228H (Site) (Incident Number nAPP2420927733). The release occurred on July 26, 2024, and 71 barrels (bbls) of produced water were released at the Site; approximately 20 bbls were recovered. In order to establish depth to water (DTW) within a half-mile radius of the Site, a WR-07 Permit and WD-08 permit were submitted to the New Mexico Office of the State Engineer (NMOSE), and we are currently waiting on approval from NMOSE to complete the soil boring. Once the soil boring has been completed and allowed to equilibrate for 72-hours, Ensolum personnel will measure the DTW with an oil/water interface probe. The DTW measurement will be recorded on a WR-20 Form and mailed to the NMOSE office in Roswell, New Mexico. Matador will submit a remediation work plan or closure report upon completing excavation and confirmation sampling of the subject matter release. Matador respectfully requests a 90-day extension until January 22, 2025. Please let me know if you have any further questions regarding this site.

Thanks,



**Ashley Giovengo**

Senior Scientist

575-988-0055

**Ensolum, LLC**

**in f X**

"Your authenticity is your superpower." – Unknown

**From:** [Hamlet, Robert, EMNRD](#)  
**To:** [Ashley Giovengo](#); [Jason Touchet](#); [Arsenio Jones](#)  
**Cc:** [Cole Burton](#); [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#)  
**Subject:** (Final Extension) - Matador Production Company - General Kehoe #228H - nAPP2420927733  
**Date:** Wednesday, January 15, 2025 1:53:28 PM  
**Attachments:** [image006.png](#)  
[image007.png](#)  
[image008.png](#)

---

[ \*\*EXTERNAL EMAIL\*\* ]

RE: Incident #NAPP2420927733

**Ashley,**

Your request for a 90-day extension to **April 15th, 2025** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

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



---

**From:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Sent:** Wednesday, January 15, 2025 12:05 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>; Jason Touchet <[jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com)>; Arsenio Jones <[arsenio.jones@matadorresources.com](mailto:arsenio.jones@matadorresources.com)>  
**Cc:** Cole Burton <[cburton@ensolum.com](mailto:cburton@ensolum.com)>; Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>  
**Subject:** [EXTERNAL] Extension Request - Matador Production Company - General Kehoe #228H - nAPP2420927733

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

Good Morning,

Matador Production Company (Matador) is requesting an extension of the current deadline of January 16, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the General Kehoe 228H 13 (Site) (Incident Number nAPP2420927733). The release occurred on July 26, 2024, and approximately 71 barrels (bbls) of produced water were released in a pipeline ROW; 20 bbls were recovered. The release impacted an area approximately 4,395 square feet (sq. ft.) in size on Private Land. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) soil boring, C-4901 POD3. The soil boring was completed by Matador for the purpose of establishing depth to water within a half mile radius of the Site. Soil Boring C-4901 is located approximately 0.28 miles west of the Site and has a reported depth to groundwater of 52 feet below ground surface (bgs) and a total depth of 55 feet bgs. A desktop review for potential site receptors has been completed for this Site and the site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine (see Figure 1). The closest significant watercourse is a 100-year flood plain located approximately 0.43 miles southeast of the Site. The Site is not underlain by unstable geology (medium potential karst designation area) and there are no indicators of surface or subsurface karst features observed at or around the Site. Based on the results of the desktop review, the following Site Closure Criteria will apply: 10 mg/kg benzene, 50 mg/kg BTEX, 1,000 mg/kg TPH – Gasoline Range Organics (GRO) and TPH – Diesel Range Organics (DRO), 2,500 mg/kg Total TPH and 10,000 mg/kg chloride. Ensolum personnel oversaw the excavation of the subject matter release beginning on December 17, 2024, through December 20, 2024, and a total of 26 composite confirmation floor samples were collected from the floor of the excavation; All 26 confirmation floor samples were below the Site Closure Criteria at a depth of 4 feet to 5 feet bgs. A total of 3 confirmation soil samples were collected from the sidewalls of the excavation and laboratory analytical results indicated that sidewall soil samples SW01, SW02 and SW04 were all in compliance with the strictest Closure Criteria at depths ranging from ground surface to 4 feet bgs (see Tables 3 and 4 and Figure 4).

Prior to beginning the excavation, Ensolum personnel successfully completed lateral delineation soil sampling at ground surface (see Table 1, Figure 2) in accordance with the strictest Closure Criteria, however concentrations of naturally occurring background chloride were discovered in the area immediately surrounding the subject matter release during excavation and confirmation soil sampling activities. Ensolum personnel began an investigation into naturally occurring background chloride at the Site on December 30, 2024, through December 31, 2024, and 4 boreholes (BG01 through BG04) were advanced via hand auger in undisturbed, vegetated areas to a terminal depth of 6 feet bgs (see Table 2, Figure 3). Laboratory analytical results indicated that the samples collected in background sample locations (BH01 through BG04) were below 600 mg/kg chloride at ground surface (0 ft bgs), however chloride levels started increasing in concentration at a depth of 1-foot bgs in every borehole. The highest concentrations of naturally occurring background chloride were observed between 1-foot bgs and 3 feet bgs in boreholes (BG01 through BG04) with the highest concentration (1,980 mg/kg chloride) in sample location BG04 @2 ft bgs.

Matador would like to request a second 90-day extension until March 12, 2025, in order to submit a background chloride variance via NMOCD web portal. Matador intends to submit a remediation work plan or closure report upon receiving guidance from the NMOCD with regards to vertical delineation soil sampling and confirmation soil sampling at the Site. Please feel free to reach out with any additional questions regarding the data attached.

Thanks,



**Ashley Giovengo**

Senior Scientist

575-988-0055

**Ensolum, LLC**

**in f X**

“Your authenticity is your superpower.” – Unknown



**From:** [Hamlet, Robert, EMNRD](#)  
**To:** [Chad Hamilton](#); [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com); [Arsenio Jones](#); [Csnow@matadorresources.com](mailto:Csnow@matadorresources.com)  
**Cc:** [Ashley Giovengo](#); [Dan Moir](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** (Variance Approval) - Matador\_General Kehoe 228H\_nAPP2420927733  
**Date:** Friday, January 31, 2025 8:32:12 AM  
**Attachments:** [image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)

[ \*\*EXTERNAL EMAIL\*\* ]

Chad,

The variance request is approved for tested background chlorides numbers. Please make sure the background numbers appear somewhere on the table. Additionally, include this email in the Remediation Closure Report and include a brief discussion in the executive summary for the reviewer. Regards

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



**From:** Chad Hamilton <[chamilton@ensolum.com](mailto:chamilton@ensolum.com)>  
**Sent:** Friday, January 31, 2025 7:25 AM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>; Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>; [jason.touchet@matadorresources.com](mailto:jason.touchet@matadorresources.com); [Arsenio Jones](mailto:Arsenio Jones) <[arsenio.jones@matadorresources.com](mailto:arsenio.jones@matadorresources.com)>; [Csnow@matadorresources.com](mailto:Csnow@matadorresources.com)  
**Cc:** Ashley Giovengo <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>; Dan Moir <[dmoir@ensolum.com](mailto:dmoir@ensolum.com)>  
**Subject:** [EXTERNAL] Matador\_General Kehoe 228H\_nAPP2420927733\_Chloride Variance Request

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Sample Point	0'	1'	2'	3'	4'	5'	6'
BG01	<20.0	395	722	744	495	457	625
BG02	137	1,950	1,840	1,640	948	964	1,040
BG03	538	525	833	1,040	590	583	611
BG04	<20.0	1,800	1,980	1,740	759	673	744
Average							

chloride/background levels at depth in mg/kg	338 mg/kg	1,168 mg/kg	1,344 mg/kg	1,291 mg/kg	698 mg/kg	669 mg/kg	755 mg/kg
---	--------------	----------------	----------------	----------------	--------------	--------------	--------------

Hello,

Matador Production Company (Matador) is requesting a *background chloride variance* at the General Kehoe 228H (Site) (Incident Number nAPP2420927733). On July 26, 2024, corrosion on a production line caused a leak resulting in the release of approximately 71 barrels (bbls) of produced water; 20 bbls were recovered from the release area. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on Jul 27, 2024, via web portal. The release occurred in a pipeline right of way and adjoining pasture area.

A desktop review for potential site receptors has been completed for this Site and according to the New Mexico Office of the State Engineer (NMOSE), the closest depth to groundwater measurement is NMOSE well C-4901 POD1 with a reported depth to groundwater measurement of 52 feet below ground surface (bgs); the well is 0.27 miles from the Site and the date of the last recorded measurement was on December 2, 2024. The site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The closest significant watercourse is a 100 Year Flood Plain located approximately 2,317 feet southeast of the Site. The Site is not underlain by unstable geology (medium potential karst designation area) and there are no indicators of surface or subsurface karst features observed at or around the Site. Figure 1 depicts sensitive receptors applicable to the Site. Based on the results of the desktop review and a readjustment of the approved chloride variance request, the following Site Closure Criteria will apply: 10 mg/kg benzene, 50 mg/kg BTEX, 1,000mg/kg GRO/DRO, 2,500 mg/kg GRO/DRO/ORO and 10,000 mg/kg chloride.

On December 30, 2024, and December 31, 2024, Ensolum personnel advanced four boreholes (BG01 through BG04, Figure 3) from areas that had not been previously disturbed by oil and gas operations at depths ranging from ground surface to 6 feet bgs at the Site (See Figure 2). Laboratory analytical results indicated the presence of naturally occurring chloride concentrations in soil exceeding 600 parts per million (ppm) (also measured as mg/kg) in all four of the undisturbed areas, with a maximum chloride concentration of 1,980 mg/kg detected at BG04. When detected, the elevated concentrations generally occurred below the ground surface beginning at 0.5 feet bgs. (See Table 2).

Naturally occurring chloride concentrations ranging from <20.0 mg/kg to 1,980 mg/kg off pad has been documented. When reviewing onsite pothole analytical data, demarcations of chloride impacts versus naturally occurring concentrations can be observed through correlation of TPH impacts and/or a precipitous drop in chloride concentrations with often times an increase that does not appear to be related to the release.

Based on assessments of naturally occurring chloride concentrations beneath and adjacent to the Site, Ensolum, on behalf of Matador, is proposing an adjusted Closure Criteria and sampling variance be considered for remediation of the Site, which includes the following:

- Vertical delineation variance of chlorides that reduce to a concentration below 1,000 mg/kg before increasing again; delineation sample locations BH01, BH04, and BH05 show a clear

decrease in chloride concentration in relation to impacts resulting from the release before increasing again due to background chlorides. In sample location BH01 clear impacts can be seen in the top 6 feet below ground surface (bgs) chloride concentrations continue to decrease and meet the reclamation standard of 100 mg/kg for TPH and 600 mg/kg for chlorides then increases again to well above the 100/600 criteria. This increase is indicative of the existing background chlorides found in background samples BG01 through BG04. Sample Location BH04 also shows a characteristic decrease in chloride concentration associated with impacts to a depth of 10 feet bgs before the chloride concentrations begin to increase again. Sample location BH05 reduces to the meet the 100/600 criteria at 9 feet bgs but increases again to above 1,000 mg/kg at 10 feet bgs. The variation of chloride concentrations at depth show a clear correlation with existing background concentrations found in background sample locations.

- Sidewall confirmation samples will be collected on a frequency of one composite sample for every 200 square feet of sidewall and will be compared to the sample lateral extent concentration of 1,267 mg/kg for chloride and 100 mg/kg for TPH. The outlying sample areas from the top (ground surface) and the lower range (4 feet bgs) of the sidewalls of the excavation are not representative of the sample area taken from the sidewalls. Ground surface concentrations are not included in the average for the sidewall as the top 0.5 feet are not generally included in the sample collection. In addition the concentrations found at 4 feet bgs were not included as they are more representative of those found in the floor of the excavation. Sidewall confirmation samples will also be used to define the lateral extent of the release area in lieu of surface lateral delineation.

Matador is requesting this *background chloride and sampling variance* in order to remediate/excavate soil in the release area that exceed naturally occurring chloride concentrations. Matador will submit a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC following excavation and confirmation sampling activities. Due to the regional geology with documented elevated chloride levels at or near the Site, Matador believes this *variance request* will provide equal or better protection of public health and the environment. Matador respectfully requests approval for this *variance request* associated with Incident Number (nAPP2420927733).

Thanks,



**Chad Hamilton**

Staff Geologist

940-923-0072

Ensolum, LLC

in f t

**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 367787

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 367787
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
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: Corrosion   Flow Line - Production   Produced Water   Released: 43 BBL   Recovered: 20 BBL   Lost: 23 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.

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

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

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

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

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

QUESTIONS, Page 2

Action 367787

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 367787
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
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**District II**  
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Phone:(575) 748-1283 Fax:(575) 748-9720  
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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**

ACKNOWLEDGMENTS  
  
Action 367787

ACKNOWLEDGMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 367787
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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**District IV**  
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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 367787

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 367787
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
c_talley	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	7/27/2024



<b>Impacted Soil</b>
Saturated Soil (inches)
2
Area (sq. ft.)
3667
<b>Standing fluids</b>
inches of standing fluid
bbl estimate of standing fluids
barrels recovered (if known)
20
<b>Soil type</b>
Silty-sand
<b>Spill type</b>
oil/produced water
<b>Barrel estimate in soil</b>
50.8
Barrel estimate (standing fluids/ recovered+in soil)
70.8

need to populate or select

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QUESTIONS

Action 368078

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 368078
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
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: Corrosion   Flow Line - Production   Produced Water   Released: 71 BBL   Recovered: 20 BBL   Lost: 51 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.

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QUESTIONS, Page 2

Action 368078

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 368078
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/29/2024
--	--

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QUESTIONS, Page 3

Action 368078

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 368078
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	No
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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CONDITIONS

Action 368078

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 368078
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	None	7/31/2024

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QUESTIONS

Action 411272

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 411272
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

<b>Location of Release Source</b>	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	5,026
What is the estimated number of samples that will be gathered	41
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/16/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572

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CONDITIONS

Action 411272

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 411272
	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.	12/12/2024



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QUESTIONS

Action 411290

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 411290
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

<b>Location of Release Source</b>	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	5,026
What is the estimated number of samples that will be gathered	41
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/17/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572

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CONDITIONS

Action 411290

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 411290
	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.	12/12/2024

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QUESTIONS

Action 411298

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 411298
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,026
What is the estimated number of samples that will be gathered	41
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/18/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572

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CONDITIONS

Action 411298

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 411298
	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.	12/12/2024

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QUESTIONS

Action 411304

## QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 411304
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

## QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

## Location of Release Source

Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

## Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,026
What is the estimated number of samples that will be gathered	41
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/19/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572

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CONDITIONS

Action 411304

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 411304
	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.	12/12/2024

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QUESTIONS

Action 411310

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 411310
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

<b>Location of Release Source</b>	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	5,026
What is the estimated number of samples that will be gathered	41
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/20/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572



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CONDITIONS

Action 411310

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 411310
	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.	12/12/2024

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QUESTIONS

Action 411314

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 411314
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,026
What is the estimated number of samples that will be gathered	41
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/23/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572

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Santa Fe, NM 87505

CONDITIONS

Action 411314

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 411314
	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.	12/12/2024

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**Santa Fe, NM 87505**

QUESTIONS

Action 416654

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 416654
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

<b>Location of Release Source</b>	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	600
What is the estimated number of samples that will be gathered	3
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/06/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Cole Burton @ (575) 706-5056
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572

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CONDITIONS

Action 416654

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 416654
	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.	1/2/2025

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QUESTIONS

Action 428462

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 428462
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,026
What is the estimated number of samples that will be gathered	41
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/07/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Isreal Estrella (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.2537958, -104.0519572

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CONDITIONS

Action 428462

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 428462
	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.	2/5/2025



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QUESTIONS

Action 430098

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 430098
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source	
Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	800
What is the estimated number of samples that will be gathered	4
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/13/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Chad Hamilton (940) 923-0072
Please provide any information necessary for navigation to sampling site	32.2537958,-104.0519572

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CONDITIONS

Action 430098

## CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 430098
	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.	2/10/2025

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QUESTIONS

Action 438671

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 438671
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2420927733
Incident Name	NAPP2420927733 GENERAL KEHOE 228H @ 30-015-44986
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-44986] GENERAL KEHOE 02 24S 28E RB #228H
Incident Facility	[fAPP2202572433] General Kehoe Facility Tank battery

Location of Release Source

Please answer all the questions in this group.

Site Name	General Kehoe 228H
Date Release Discovered	07/26/2024
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: Corrosion   Flow Line - Production   Produced Water   Released: 71 BBL   Recovered: 20 BBL   Lost: 51 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 438671

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 438671
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
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: <a href="mailto:jason.touchet@matadorresources.com">jason.touchet@matadorresources.com</a> Date: 03/04/2025
--	--

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QUESTIONS, Page 3

Action 438671

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 438671
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (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	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<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)	11600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	23268
GRO+DRO (EPA SW-846 Method 8015M)	20158
BTEX (EPA SW-846 Method 8021B or 8260B)	78
Benzene (EPA SW-846 Method 8021B or 8260B)	4

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	12/17/2024
On what date will (or did) the final sampling or liner inspection occur	02/13/2025
On what date will (or was) the remediation complete(d)	02/13/2025
What is the estimated surface area (in square feet) that will be reclaimed	5185
What is the estimated volume (in cubic yards) that will be reclaimed	1368
What is the estimated surface area (in square feet) that will be remediated	5185
What is the estimated volume (in cubic yards) that will be remediated	1386

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 438671

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 438671
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<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>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	R360 Hobbs & Lea Land LLC, Hobbs, NM
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: <a href="mailto:jason.touchet@matadorresources.com">jason.touchet@matadorresources.com</a> Date: 03/04/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5  
  
Action 438671

QUESTIONS (continued)

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:  228937
	Action Number:  438671
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No



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QUESTIONS, Page 6

Action 438671

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 438671
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	430098
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/13/2025
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	800

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5185
What was the total volume (cubic yards) remediated	1368
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	5185
What was the total volume (in cubic yards) reclaimed	1368
Summarize any additional remediation activities not included by answers (above)	N/A
<p><i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i></p>	
<p>I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.</p>	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: <a href="mailto:jason.touchet@matadorresources.com">jason.touchet@matadorresources.com</a> Date: 03/04/2025

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QUESTIONS, Page 7  
  
Action 438671

QUESTIONS (continued)

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:  228937
	Action Number:  438671
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 438671

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 438671
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2420927733 GENERAL KEHOE 228H, thank you. This Remediation Closure Report is approved.	3/5/2025