



December 9, 2024

New Mexico Oil Conservation Division

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

**Re: Deferral Request Addendum
Rustler Breaks 2 Booster Station
Incident Numbers nAPP2321360002
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request Addendum (DRA)* to document excavation and soil sampling activities performed at the Rustler Breaks 2 Booster Station (Site). The purpose of the excavation and soil sampling activities was to address impacts to soil following a release of produced water onto the well pad. Based on field observations following excavation, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Deferral Request Addendum*, describing Site assessment and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2321360002 until the Site is reconstructed and/or the booster pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit E, Section 06, Township 24 South, Range 28 East, in Eddy County, New Mexico (32.25081°, -104.13487°) and is associated with oil and gas exploration and production operations on private land.

On February 20, 2023, the discharge pump bracket failed causing the release of approximately 32 barrels (bbls) of produced water to the pad surface and slightly off-pad; released fluids were not recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on August 2, 2023, which is included in Appendix A. The release was assigned Incident Number nAPP2321360002.

On November 8, 2024, Ensolum submitted a *Deferral Request (DR)* to the New Mexico Oil Conservation Division (NMOCD); however, the DR was denied by the NMOCD for the following reasons:

- *Deferral denied. At the top of pg. 3, it says SW09@0-10' and SW09@0-10'. Update this. Remediation on an active site can be deferred in areas immediately under or around production equipment such as production tanks, wellheads, and pipelines where remediation could cause a major facility deconstruction so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. FS23, though vertically delineated, has not been horizontally delineated. No sidewall sample was collected around this part of the excavation and as such we don't exactly know how big of an area still needs remediation.*

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

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This DRA addresses NMOCD's concerns regarding additional delineation sampling around the area of requested deferral and the text listing side wall samples (SW08 and SW09) on page 3 was corrected.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C 04085 POD 2, located approximately 0.9 miles north of the Site. The well had a reported depth to groundwater at 100 feet below ground surface (bgs) and a total depth of 240 feet bgs. All wells used for depth to groundwater determination are presented in Figure 1. The referenced well record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 0.83 miles east 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 underlain by unstable geology (high potential karst designation area). Site receptors are identified in Figure 1.

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

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

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On August 21, 2023, September 5, 2023, and August 5, 2024, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Six preliminary assessment soil samples (SS01 through SS06) were collected around the release extent at ground surface to assess the lateral extent of the spill area. One borehole (BH01) was advanced via hand auger, one borehole (BH02) was advanced via backhoe, and one borehole (BH03) was advanced via a backpack drill within the release extent to assess the vertical extent of soil. Borehole BH01 was advanced to a depth of 2 feet bgs, borehole BH02 was advanced to a depth of 10 feet bgs, and BH03 was advanced to a depth of 5.5 feet bgs. The preliminary assessment soil samples were field screened for TPH using a PetroFLAG® soil analyzer system and chloride using Mohr method titration. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figures 2. Photographic documentation was collected, and a photographic log is included in Appendix C.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Laboratory Analysis (Envirotech) in

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Farmington, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

From November 20 through November 29, 2023, and August 5 through August 6, 2024, Ensolum personnel were onsite to oversee the excavation and removal of impacted and waste-containing soil at the Site. Excavation activities were performed using a backhoe and transport vehicles. The excavation occurred on-pad, in the pasture area south of the pad, and west-southwest following the pipeline right-of-way (ROW). To direct excavation activities, soil was screened for chloride using the Mohr method titration.

Ensolum personnel returned to the Site on September 3, 2024, to excavate the remaining waste-containing soil identified at a depth greater than 2 feet bgs in borehole (BH02). Ensolum personnel excavated confirmation sample area FS17 (BH02) to a depth of 10 feet bgs. Ensolum personnel collected two 5-point composite samples (SW08@0-10' and SW09@0-10') from the sidewalls of confirmation sample area FS17.

On November 11, 2024, Ensolum personnel returned to the Site to collect additional delineation samples around the area of requested deferral. Three additional delineation soil samples (SS07 through SS09) were collected around the area of requested deferral (confirmation soil sample location FS23) at ground surface to assess the lateral extent of the spill area. The soil samples were field screened for chloride using Mohr method titration. The soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figures 2. Photographic documentation was collected, and a photographic log is included in Appendix C.

The Site excavation area measured approximately 7,929 square feet. A total of approximately 1,379 cubic yards of soil was removed from the excavation area. The soil was transported and properly disposed of at the R360 Hobbs Facility in New Mexico.

Following removal of impacted and waste-containing soil, 5-point composite soil samples were collected at least every 200 square feet from the floor of the excavation and every 200 feet from the sidewalls 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. Excavation floor soil samples FS01 through FS40 were collected at depths ranging from 1-foot to 6.5 feet bgs and excavation sidewall soil samples (SW01 through SW07) were collected at depths ranging from the ground surface to 6 feet bgs. The excavation extent and excavation soil sample locations are presented on Figure 3.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary assessment soil samples (SS01 through SS06) indicated all COC concentrations were in compliance with the Site Closure Criteria at ground surface. Laboratory analytical results from boreholes BH01 and BH02 indicated the presence of elevated chloride concentrations at the ground surface. Laboratory analytical results from borehole BH01 indicated soil impacts from the produced water release did not extend below 2 feet bgs; however, chloride concentrations at depths greater than 2 feet bgs in sample location BH02 exceeded the Site Closure Criteria. Laboratory analytical results for preliminary assessment soil samples are summarized in Table 1.

Laboratory analytical results for excavation floor samples and excavation sidewall samples were all in compliance with the Site Closure Criteria and with the reclamation requirement except for FS23,

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collected at 4-feet bgs. Delineation soil sample collected at 4.5 feet and 5.5 feet bgs in sample location BH03 were collected to verify the vertical extent of the Area of Requested Deferral. Laboratory analytical results from FS17@10' and sidewall samples (SW08@0-10' and SW09@ 0-10') were all below the Site Closure Criteria. The laboratory analytical results are summarized in Tables 2 and 3 and the complete laboratory analytical reports are included in Appendix D. All sampling notifications to NMOCD and additional correspondence is included in Appendix E.

DEFERRAL REQUEST

Matador is requesting deferral of final remediation due to the presence of active production equipment, process piping, and the supports beneath them, preventing full excavation of impacted soil. The estimated area of remaining impacted soil measures approximately 200 square feet, and assuming a depth of up to 4.5 feet bgs under the electrical panels and pumps based on the analytical results from surrounding confirmation samples and 4 feet bgs in sample area FS23 based on delineation borehole BH03, a total of approximately 4 cubic yards of impacted soil remains in place. Soil in the vicinity of floor confirmation soil sample FS23 are included in this deferment request due to the proximity of production equipment and safety concerns of excavating deeper, which has the potential to destabilize the equipment and harm workers and/or the environment. The deferral area and delineation soil samples are depicted on Figure 4.

Impacted soil is limited to the area beneath active production equipment, where remediation would require a major facility deconstruction. The release extent has been laterally delineated by delineation soil samples SS01 through SS09 at 0 feet bgs and vertically delineated by borehole samples BH01 at 2 feet bgs, BH02 at 2 feet bgs and borehole sample BH03 at 4.5 feet bgs.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be 100 feet bgs, and all accessible impacted soil was removed to the maximum extent practicable (MEP) during the excavation activities. Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Matador requests deferral of final remediation for Incident Number nAPP2321360002 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely,
Ensolum, LLC



Ashley Giovengo
Senior Scientist



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

cc: Jason Touchet, Matador Production Company

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Appendices:

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

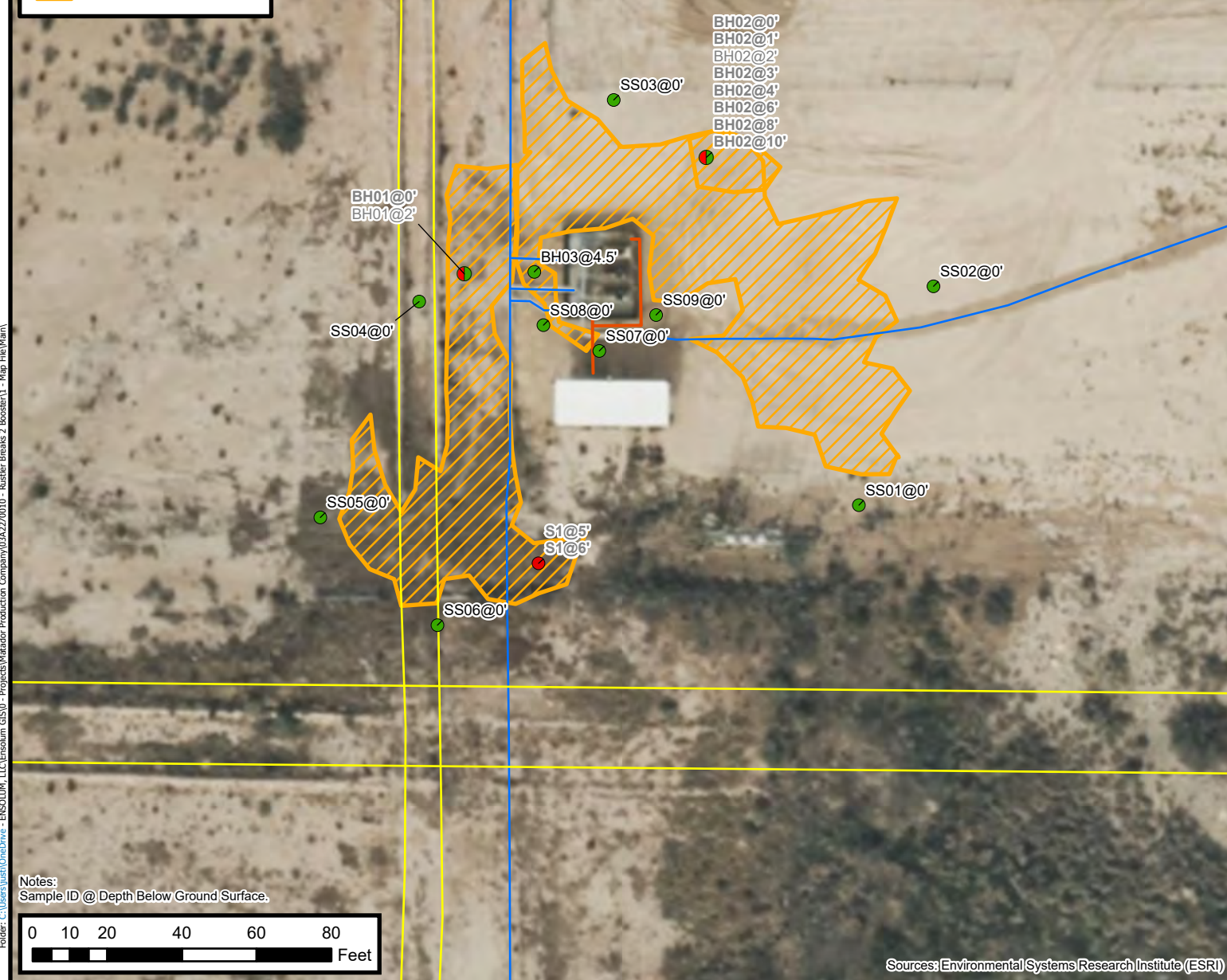


FIGURES



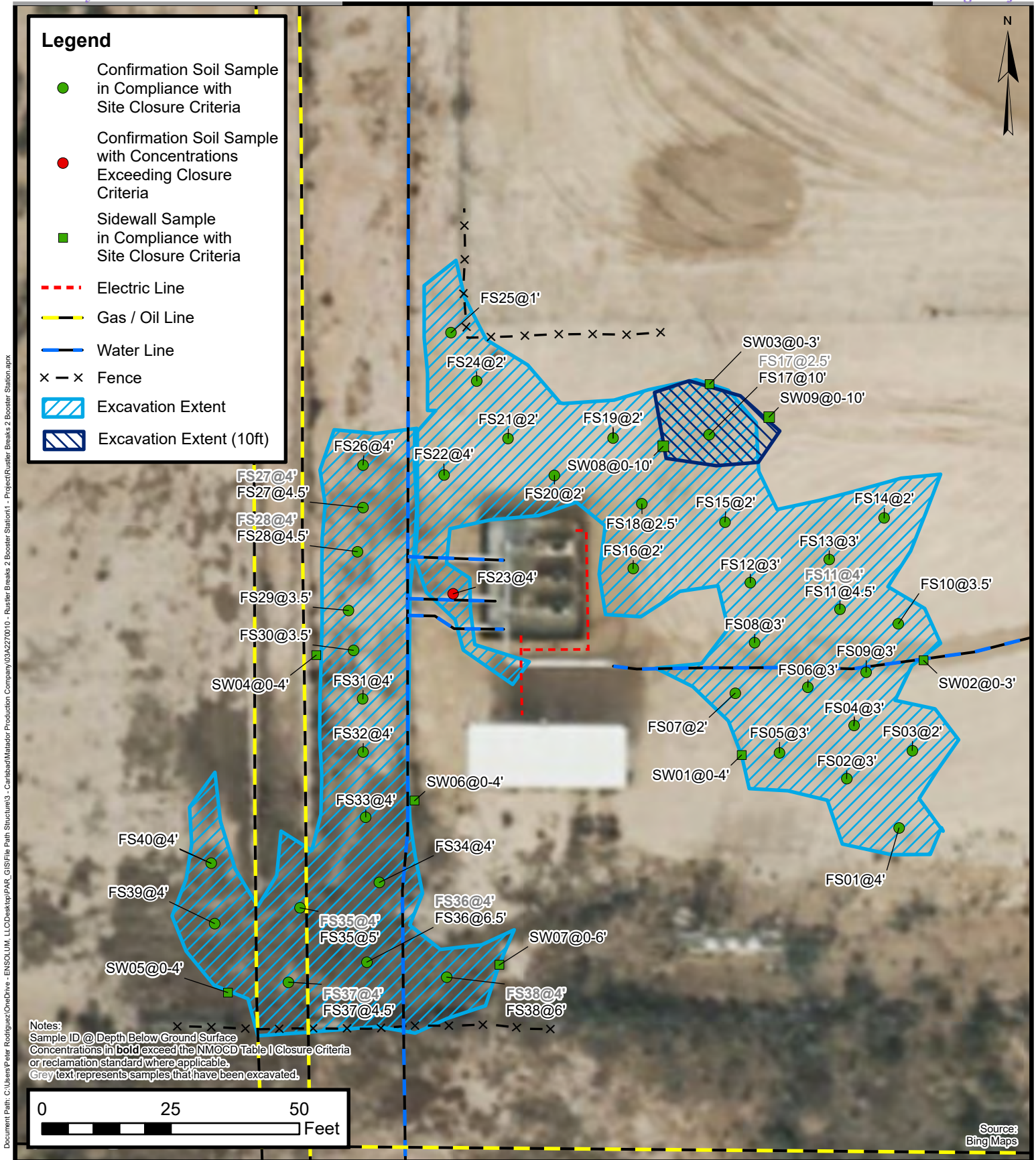
Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- ● Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- Release Extent

**Delineation Soil Sample Locations**

Matador Production Company
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Eddy County, New Mexico

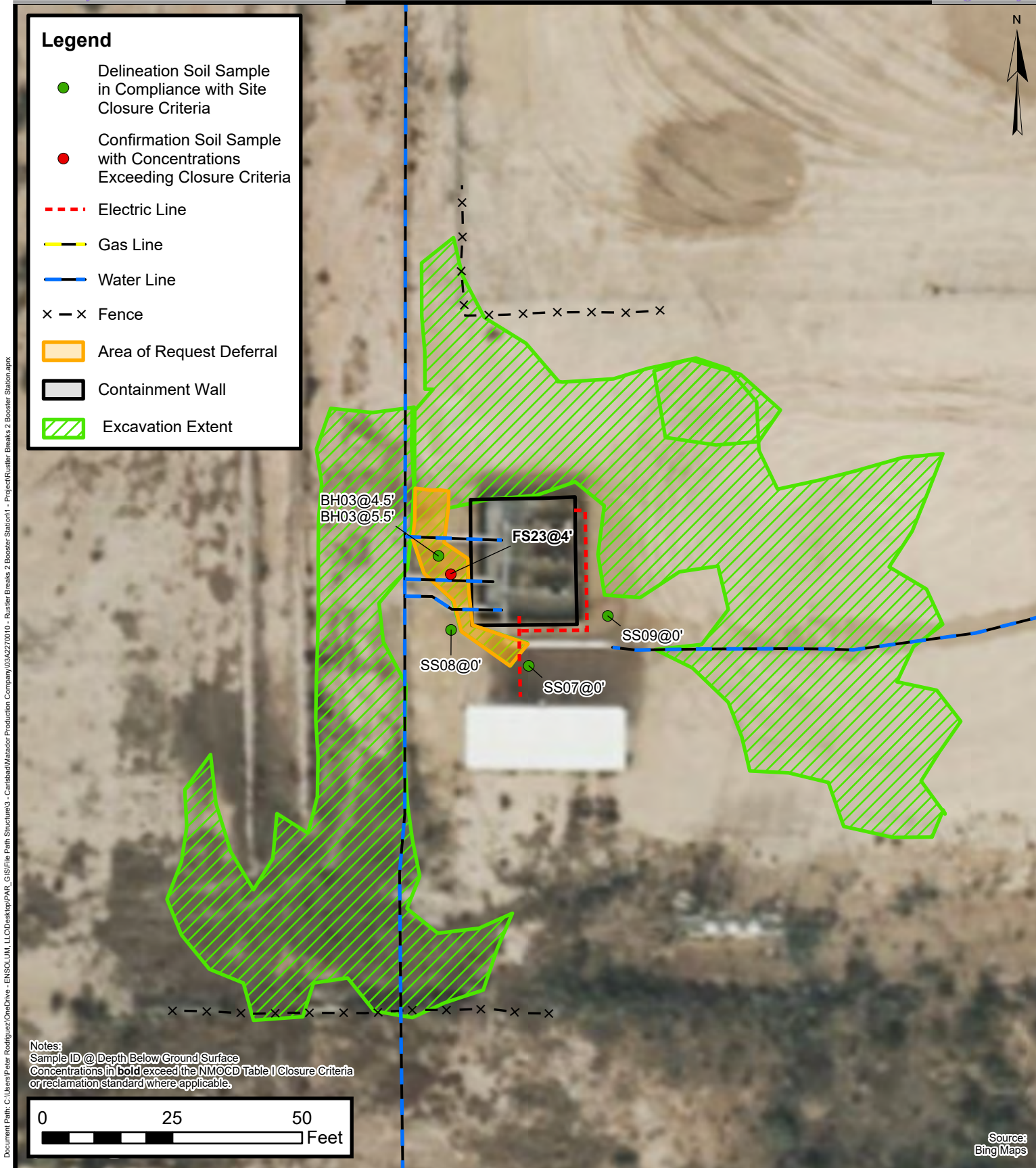
FIGURE
2



Confirmation Soil Sample Locations

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 Unit E, Section 06, T 24S, R28E
 Eddy County, New Mexico

FIGURE
3



Area of Requested Deferral

Matador Production Company
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 Incident Number: NAPP2321360002
 Unit E, Section 06, T 24S, R28E
 Eddy County, New Mexico

FIGURE
4



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Rustler Breaks 2 Booster Station 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)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	8/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<200
SS02	8/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	324
SS03	8/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	450
SS04	8/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	310
SS05	8/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<200
SS06	8/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<200
SS07	11/22/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	243
SS08	11/22/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	298
SS09	11/22/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	170
BH01	8/21/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<500	16,900
BH01	8/21/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<200
BH02	8/21/2023	0	<0.0250	<0.0250	<20.0	35.9	<50.0	35.9	35.9	21,400
BH02	8/21/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	4,720
BH02	9/13/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	361
BH02	9/13/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	709
BH02	9/13/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	987
BH02	9/13/2023	6	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	909
BH02	9/13/2023	8	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	912
BH02	9/13/2023	10	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	751
BH03	8/5/2024	4.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<200
BH03	8/5/2024	5.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<200
S1	11/29/2023	5	NA	NA	NA	NA	NA	NA	NA	845
S1	11/29/2023	6	NA	NA	NA	NA	NA	NA	NA	2,480

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

NA: Not Analyzed



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 Rustler Breaks 2 Booster Station
 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)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Floor Soil Samples										
FS01	11/29/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	393
FS02	11/22/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	425
FS03	11/22/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	534
FS04	11/27/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	250
FS05	11/22/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	423
FS06	11/27/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	216
FS07	11/22/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<500	381
FS08	11/29/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	486
FS09	11/27/2023	3	<0.0250	<0.0250	<20.0	35.9	<50.0	<50.0	<50.0	<200
FS10	11/29/2023	3.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	449
FS11	11/29/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	1,060
FS11	8/5/2024	4.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	170
FS12	11/27/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<200
FS13	11/27/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	365
FS14	11/22/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	450
FS15	11/22/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	450
FS16	11/22/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	537
FS17	11/22/2023	2.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	500
FS17	9/3/2024	10	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	263
FS18	11/22/2023	2.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	273
FS19	11/22/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	330
FS20	11/22/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	255
FS21	11/27/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<200
FS22	11/28/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	221
FS23	11/27/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	2,160



TABLE 2 - CONTINUED
SOIL SAMPLE ANALYTICAL RESULTS
 Rustler Breaks 2 Booster Station
 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)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Floor Soil Samples										
FS24	11/27/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	231
FS25	11/27/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	345
FS26	11/27/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	592
FS27	11/28/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	837
FS27	8/5/2024	4.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	352
FS28	11/28/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	756
FS28	8/5/2024	4.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	343
FS29	11/28/2023	3.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<200
FS30	11/28/2023	3.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<500	<200
FS31	11/28/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<200
FS32	11/29/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	280
FS33	11/29/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	418
FS34	11/29/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
FS35	11/29/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	775
FS35	8/6/2024	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<200
FS36	11/29/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	680
FS36	8/6/2024	6.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	262
FS37	11/29/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	690
FS37	8/5/2024	4.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<200
FS38	11/29/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	3,030
FS38	8/6/2024	6	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	332
FS39	11/28/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	296
FS40	11/28/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	363

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
 Rustler Breaks 2 Booster Station
 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)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Sidewall Soil Samples										
SW01	11/29/2023	0-4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	254
SW02	11/29/2023	0-3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	494
SW03	11/27/2023	0-3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	411
SW04	11/28/2023	0-4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	220
SW05	11/29/2023	0-4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	299
SW06	11/29/2023	0-4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	213
SW07	8/6/2024	0-6	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<100
SW08	9/3/2024	0-10	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	439
SW09	9/3/2024	0-10	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	489

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04085 POD2	2	4	1	31	23S	28E	582083	3569982

Driller License: 1778	Driller Company: THIRD GENERATION DRILLING
Driller Name: TRAVIS MANN	
Drill Start Date: 10/07/2018	Drill Finish Date: 10/10/2018
Log File Date: 11/05/2018	PCW Rcv Date:
Pump Type:	Pipe Discharge Size:
Casing Size: 5.00	Depth Well: 240 feet
	Plug Date:
	Source: Shallow
	Estimated Yield: 15 GPM
	Depth Water: 100 feet

Water Bearing Stratifications:	Top	Bottom	Description
	160	180	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	140	240

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



APPENDIX B

Photographic Log



Photographic Log

Matador Production Company

Site Name: Rustler Breaks 2 Booster Station

Incident Number: nAPP2321360002



Photograph 1
Description: Spill Area
View: Southwest
Date: 08/02/2023



Photograph 2
Description: Spill Area
View: Northwest
Date: 08/02/2023



Photograph 3
Description: Vertical Delineation
View: Southeast
Date: 08/21/2023



Photograph 4
Description: Vertical Delineation
View: West
Date: 08/21/2023



Photographic Log

Matador Production Company
Site Name: Rustler Breaks 2 Booster Station
Incident Number: nAPP2321360002



Photograph 5

Date: 8/02/2023

Description: Spill Area

View: West



Photograph 6

Date: 9/05/2023

Description: Vertical Delineation Sampling

View: South



Photograph 7

Date: 09/05/2023

Description: Vertical Delineation Sampling

View: Northwest



Photograph 8

Date: 09/05/2023

Description: Vertical Delineation Sampling

View: Southwest

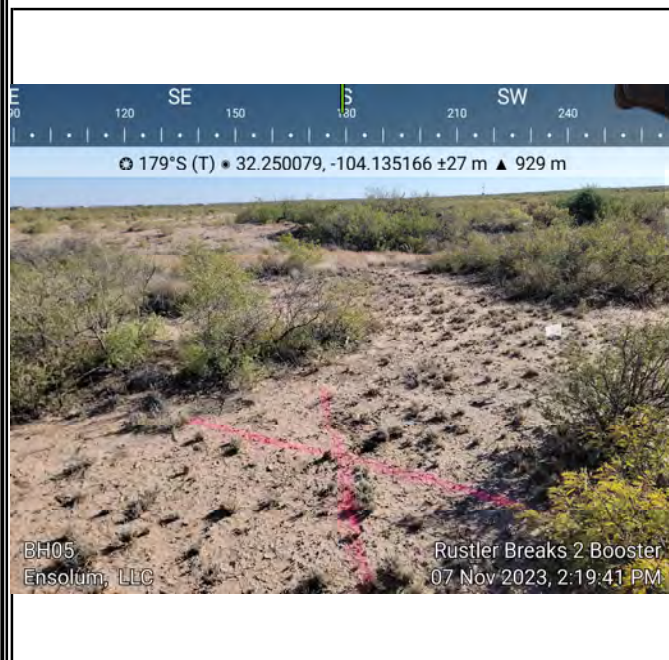


Photographic Log

Matador Production Company

Site Name: Rustler Breaks 2 Booster Station

Incident Number: nAPP2321360002



Photograph 9

Date: 11/7/2023

Description: Background Sampling (BG05)

View: South

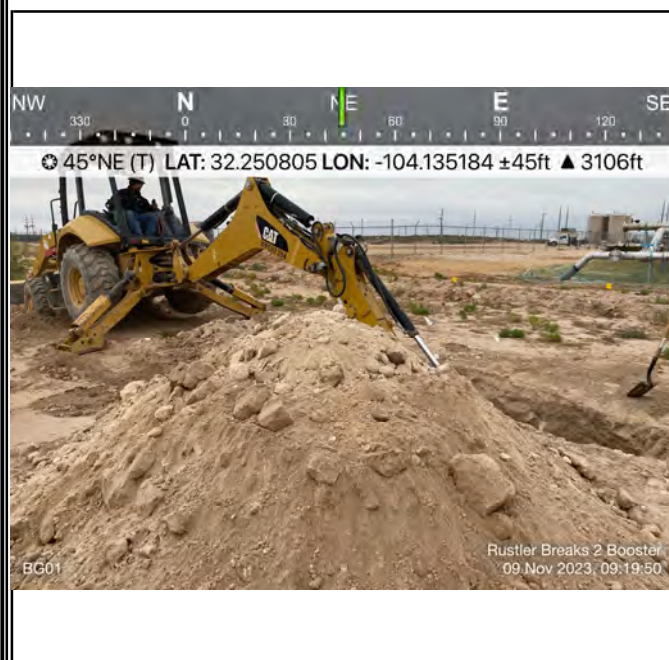


Photograph 10

Date: 11/7/2023

Description: Background Sampling (BG05 - 5')

View: South



Photograph 11

Date: 11/8/2023

Description: Background Sampling (BG01)

View: Northeast



Photograph 12

Date: 11/7/2023

Description: Background Sampling (BG03)

View: Southwest



Photographic Log

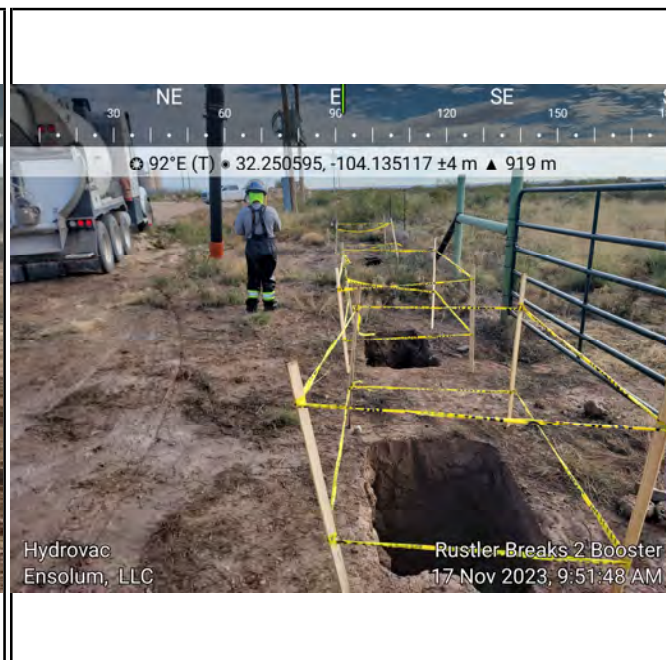
Matador Production Company

Site Name: Rustler Breaks 2 Booster Station

Incident Number: nAPP2321360002



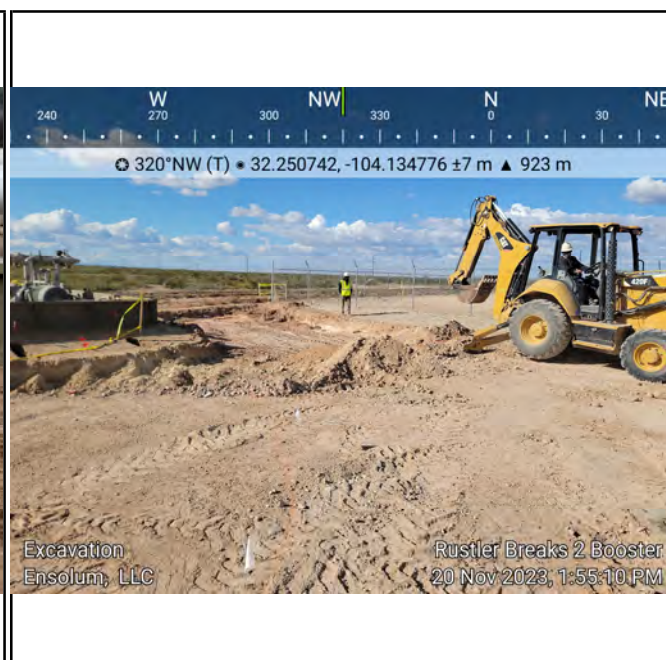
Photograph 13 Date: 11/17/2023
Description: Hydrovac Spotting Lines
View: South



Photograph 14 Date: 11/17/2023
Description: Hydrovac Spotting Lines
View: East



Photograph 15 Date: 11/20/2023
Description: Hydrovac Containment
View: Northwest



Photograph 16 Date: 11/20/2023
Description: Excavation
View: Northwest



Photographic Log

Matador Production Company

Site Name: Rustler Breaks 2 Booster Station

Incident Number: nAPP2321360002



Photograph 17

Date: 11/21/2023

Description: Excavation

View: North



Photograph 18

Date: 11/21/2023

Description: Excavation

View: Southeast

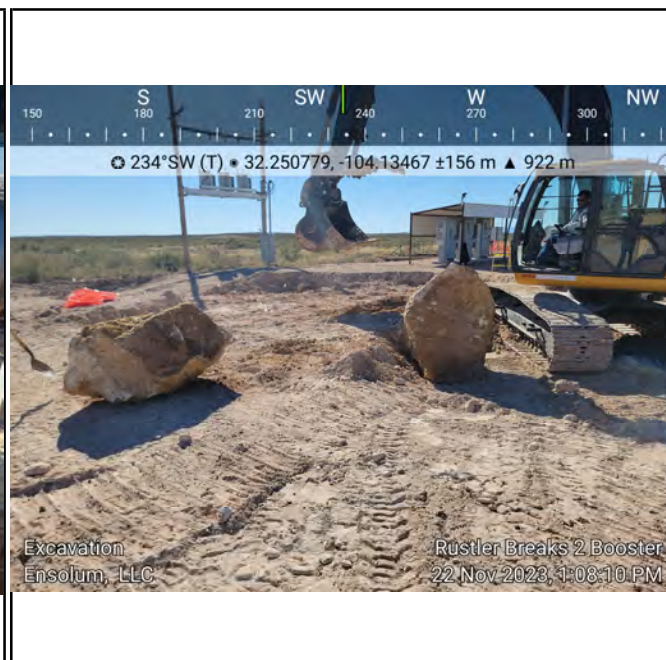


Photograph 19

Date: 11/22/2023

Description: Hand Digging

View: South



Photograph 20

Date: 11/22/2023

Description: Boulders in FS08 & FS11 Area

View: Southwest



Photographic Log

Matador Production Company

Site Name: Rustler Breaks 2 Booster Station

Incident Number: nAPP2321360002



Photograph 21

Date: 11/22/2023

Description: FS08 & FS11 Area

View: West

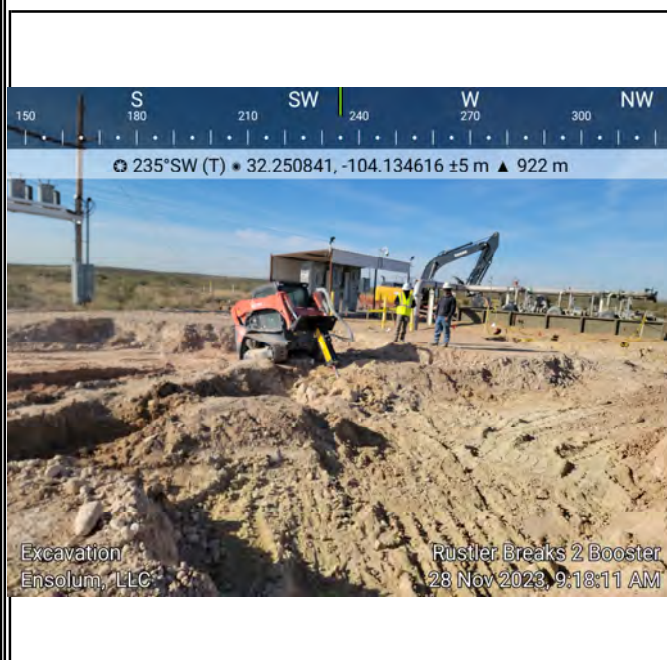


Photograph 22

Date: 11/27/2023

Description: Excavation

View: Southwest



Photograph 23

Date: 11/28/2023

Description: Breaking Rock

View: Southwest



Photograph 24

Date: 11/28/2023

Description: Excavation

View: West

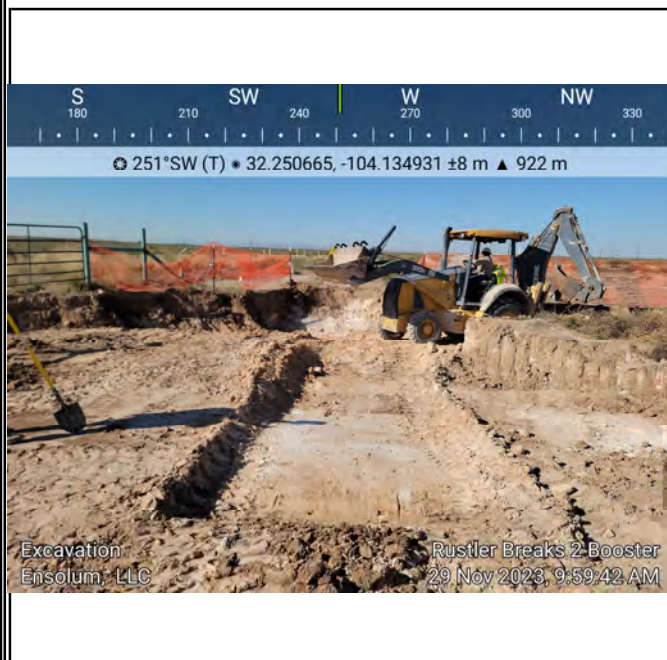


Photographic Log

Matador Production Company

Site Name: Rustler Breaks 2 Booster Station

Incident Number: nAPP2321360002



Photograph 25

Date: 11/29/2023

Description: Excavation

View: West

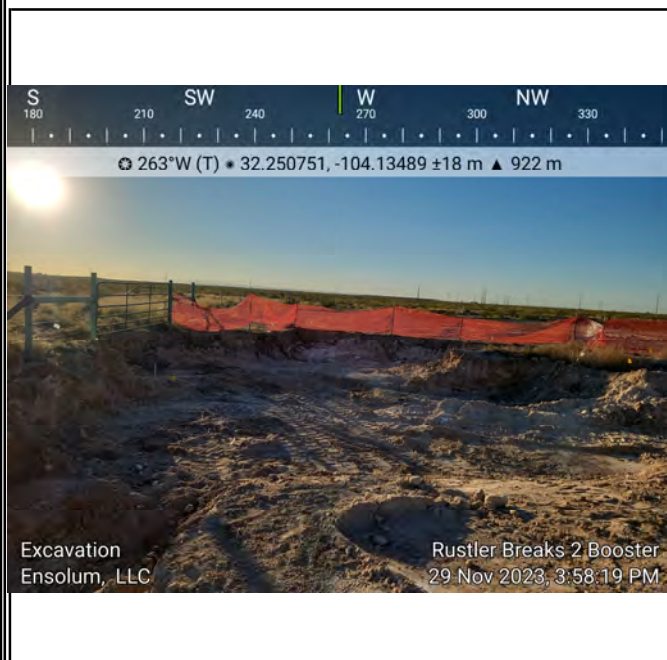


Photograph 26

Date: 11/29/2023

Description: Excavation

View: West



Photograph 27

Date: 11/29/2023

Description: Excavation

View: West



Photograph 28

Date: 11/29/2023

Description: S1 Pothole Under FS38

View: South



Photographic Log

Matador Production Company

Site Name: Rustler Breaks 2 Booster Station

Incident Number: nAPP2321360002



Photograph 29

Date: 8/5/2024

Description: Excavation

View: Northeast



Photograph 30

Date: 8/5/2024

Description: Vertical Delineation Sampling

View: South



Photograph 31

Date: 8/5/2024

Description: Excavation

View: Southwest



Photograph 32

Date: 8/5/2024

Description: Excavation

View: West



Photographic Log

Matador Production Company

Site Name: Rustler Breaks 2 Booster Station

Incident Number: nAPP2321360002



Photograph 33

Date: 8/5/2024

Description: Hydrovac

View: Southwest



Photograph 34

Date: 8/6/2024

Description: Hydrovac

View: Southwest



Photograph 35

Date: 8/6/2024

Description: Excavation

View: West



Photograph 36

Date: 8/6/2024

Description: Excavation

View: Southwest



Photographic Log

Matador Production Company

Site Name: Rustler Breaks 2 Booster Station

Incident Number: nAPP2321360002



Photograph 37
Description: Hydrovac
View: Southwest

Date: 08/06/2024



Photograph 38
Description: Excavation (BH02) - FS17-10'
View: West

Date: 9/03/2024



Photograph 39
Description: Excavation (BH02) - FS17-10'
View: East

Date: 9/03/2024



Photograph 40
Description: Excavation (BH02) - FS17-10'
View: Southeast

Date: 9/03/2024

**Photographic Log**

Matador Production Company

Site Name: Rustler Breaks 2 Booster Station

Incident Number: nAPP2321360002



Photograph 41
Description: Delineation
View: West

Date: 11/22/2024




Photograph 42
Description: Delineation
View: West


Date: 11/22/2024




APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01		Date: 8/21/23	
LITHOLOGIC / SOIL SAMPLING LOG								Site Name: Rustler Breaks 2 Booster			
								Incident Number: nAPP232160002			
								Job Number: 03A2270010			
Coordinates: 32.25081, -104.13501								Logged By: Cole		Method: Hand auger	
								Hole Diameter: 3"		Total Depth: 3'	
Comments: Field screening conducted with Chloride titraion MOHR Method for chloride, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH01	0	0	SP	SAND, very fine, brown, with silt.			
M	4200		N	BH01	1	1					
M	200		N	BH01	2	2	SP	SAND, very fine, reddish brown, with silt.			
D	150		N	BH01	3	3					
Total Depth 3' bgs.											

								Sample Name: BH02		Date: 8/21/23	
								Site Name: Rustler Breaks 2 Booster			
								Incident Number: nAPP232160002			
								Job Number: 03A2270010			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole		Method: Backhoe	
Coordinates: 32.25081, -104.13501								Hole Diameter: 3'		Total Depth: 10'	
Comments: Field screening conducted with Chloride titraion MOHR Method for chloride, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH02	0	0	CCHE	CALICHE - Pad material. Chloride staining present			
M	3400		N	BH02	1	1	SP	SAND, brown, very fine, with silt. No Stain or odor.			
D	550		N	BH02	2	2					
D	650		N	BH02	3	3	GYP	GYPSUM, pale white, medium grained to microcrystalline poor cohesion, some inclusions of clay, red ~1-3 cm, low plasticity low cohesion, staining gypsum red where present. No stain or odor.			
	900			BH02		4					
	1000			BH02		5					
	800			BH02		6					
	700			BH02		7		Same as above - red clay and red gypsum absent.			
	800			BH02		8					
	700			BH02		9					
	700			BH02		10					
Total Depth 10' bgs											

								Sample Name: BH03		Date: 8/5/24	
								Site Name: Rustler Breaks 2 Booster			
								Incident Number: nAPP232160002			
								Job Number: 03A2270010			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Cole		Method: Backpack drill	
Coordinates: 32.25082, -104.13496								Hole Diameter: 2"		Total Depth: 5.5'	
Comments: Field screening conducted with Chloride titraion MOHR Method for chloride, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			N	BH03	0	0	CCHE	CALICHE - Pad material.			
D					1	1					
D					2	2					
D					3	3					
D					4	4					
D	300		N	BH03	4.5	5	GYP	GYPSUM, pale white, medium grained to microcrystalline poor cohesion, some inclusions of clay, red ~1-3 cm, low plasticity low cohesion			
D			N	BH03	5.5			No stain or odor.			
Total Depth = 5.5'											



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: Rustler Breaks 2 Booster Station

Work Order: E308164

Job Number: 23052-0001

Received: 8/23/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/29/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/29/23



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

Project Name: Rustler Breaks 2 Booster Station
Workorder: E308164
Date Received: 8/23/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/23/2023 8:15:00AM, under the Project Name: Rustler Breaks 2 Booster Station.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster Station apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Station Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 08/29/23 08:39
---	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0'	E308164-01A	Soil	08/21/23	08/23/23	Glass Jar, 2 oz.
SS02 - 0'	E308164-02A	Soil	08/21/23	08/23/23	Glass Jar, 2 oz.
SS03 - 0'	E308164-03A	Soil	08/21/23	08/23/23	Glass Jar, 2 oz.
SS04 - 0'	E308164-04A	Soil	08/21/23	08/23/23	Glass Jar, 2 oz.
SS05 - 0'	E308164-05A	Soil	08/21/23	08/23/23	Glass Jar, 2 oz.
SS06 - 0'	E308164-06A	Soil	08/21/23	08/23/23	Glass Jar, 2 oz.
BH01 - 0'	E308164-07A	Soil	08/21/23	08/23/23	Glass Jar, 2 oz.
BH01 - 2'	E308164-08A	Soil	08/21/23	08/23/23	Glass Jar, 2 oz.
BH02 - 0'	E308164-09A	Soil	08/21/23	08/23/23	Glass Jar, 2 oz.
BH02 - 1'	E308164-10A	Soil	08/21/23	08/23/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Station Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/29/2023 8:39:41AM
---	--	----------------------------------

SS01 - 0'

E308164-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2334043	
Benzene	ND	0.0250	1	08/23/23	08/23/23	
Ethylbenzene	ND	0.0250	1	08/23/23	08/23/23	
Toluene	ND	0.0250	1	08/23/23	08/23/23	
o-Xylene	ND	0.0250	1	08/23/23	08/23/23	
p,m-Xylene	ND	0.0500	1	08/23/23	08/23/23	
Total Xylenes	ND	0.0250	1	08/23/23	08/23/23	
Surrogate: 4-Bromochlorobenzene-PID	90.1 %	70-130		08/23/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2334043	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/23	08/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.3 %	70-130		08/23/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2334064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane	75.5 %	50-200		08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2334075	
Chloride	ND	200	10	08/24/23	08/26/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Station Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/29/2023 8:39:41AM
---	--	----------------------------------

SS02 - 0'

E308164-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2334043	
Benzene	ND	0.0250	1	08/23/23	08/23/23	
Ethylbenzene	ND	0.0250	1	08/23/23	08/23/23	
Toluene	ND	0.0250	1	08/23/23	08/23/23	
o-Xylene	ND	0.0250	1	08/23/23	08/23/23	
p,m-Xylene	ND	0.0500	1	08/23/23	08/23/23	
Total Xylenes	ND	0.0250	1	08/23/23	08/23/23	
Surrogate: 4-Bromochlorobenzene-PID	89.3 %	70-130		08/23/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2334043	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/23	08/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.6 %	70-130		08/23/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2334064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane	76.7 %	50-200		08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2334075	
Chloride	324	40.0	2	08/24/23	08/26/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Station Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/29/2023 8:39:41AM
---	--	----------------------------------

SS03 - 0'

E308164-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2334043	
Benzene	ND	0.0250	1	08/23/23	08/23/23	
Ethylbenzene	ND	0.0250	1	08/23/23	08/23/23	
Toluene	ND	0.0250	1	08/23/23	08/23/23	
o-Xylene	ND	0.0250	1	08/23/23	08/23/23	
p,m-Xylene	ND	0.0500	1	08/23/23	08/23/23	
Total Xylenes	ND	0.0250	1	08/23/23	08/23/23	
Surrogate: 4-Bromochlorobenzene-PID	90.0 %	70-130		08/23/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2334043	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/23	08/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.3 %	70-130		08/23/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2334064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane	88.8 %	50-200		08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2334075	
Chloride	450	200	10	08/24/23	08/26/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster Station
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
8/29/2023 8:39:41AM

SS04 - 0'

E308164-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2334043
Benzene	ND	0.0250	1	08/23/23	08/23/23	
Ethylbenzene	ND	0.0250	1	08/23/23	08/23/23	
Toluene	ND	0.0250	1	08/23/23	08/23/23	
o-Xylene	ND	0.0250	1	08/23/23	08/23/23	
p,m-Xylene	ND	0.0500	1	08/23/23	08/23/23	
Total Xylenes	ND	0.0250	1	08/23/23	08/23/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.6 %	70-130		08/23/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2334043
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/23	08/23/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	83.7 %	70-130		08/23/23	08/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2334064
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
<i>Surrogate: n-Nonane</i>						
	91.6 %	50-200		08/24/23	08/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2334075
Chloride	310	200	10	08/24/23	08/26/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster Station
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
8/29/2023 8:39:41AM

SS05 - 0'

E308164-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2334043
Benzene	ND	0.0250	1	08/23/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/23/23	08/24/23	
Toluene	ND	0.0250	1	08/23/23	08/24/23	
o-Xylene	ND	0.0250	1	08/23/23	08/24/23	
p,m-Xylene	ND	0.0500	1	08/23/23	08/24/23	
Total Xylenes	ND	0.0250	1	08/23/23	08/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.4 %	70-130		08/23/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2334043
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/23	08/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.0 %	70-130		08/23/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2334064
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
<i>Surrogate: n-Nonane</i>						
	86.4 %	50-200		08/24/23	08/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2334075
Chloride	ND	200	10	08/24/23	08/26/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster Station
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
8/29/2023 8:39:41AM

SS06 - 0'

E308164-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2334043	
Benzene	ND	0.0250	1	08/23/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/23/23	08/24/23	
Toluene	ND	0.0250	1	08/23/23	08/24/23	
o-Xylene	ND	0.0250	1	08/23/23	08/24/23	
p,m-Xylene	ND	0.0500	1	08/23/23	08/24/23	
Total Xylenes	ND	0.0250	1	08/23/23	08/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		08/23/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2334043	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/23	08/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.6 %	70-130		08/23/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2334064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
<i>Surrogate: n-Nonane</i>						
	77.4 %	50-200		08/24/23	08/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2334075	
Chloride	ND	200	10	08/24/23	08/26/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Station Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/29/2023 8:39:41AM
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BH01 - 0'

E308164-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2334043	
Benzene	ND	0.0250	1	08/23/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/23/23	08/24/23	
Toluene	ND	0.0250	1	08/23/23	08/24/23	
o-Xylene	ND	0.0250	1	08/23/23	08/24/23	
p,m-Xylene	ND	0.0500	1	08/23/23	08/24/23	
Total Xylenes	ND	0.0250	1	08/23/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID	90.5 %	70-130		08/23/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2334043	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.2 %	70-130		08/23/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2334064	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane	84.9 %	50-200		08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2334075	
Chloride	16900	400	20	08/24/23	08/26/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster Station
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
8/29/2023 8:39:41AM

BH01 - 2'

E308164-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2334043
Benzene	ND	0.0250	1	08/23/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/23/23	08/24/23	
Toluene	ND	0.0250	1	08/23/23	08/24/23	
o-Xylene	ND	0.0250	1	08/23/23	08/24/23	
p,m-Xylene	ND	0.0500	1	08/23/23	08/24/23	
Total Xylenes	ND	0.0250	1	08/23/23	08/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		08/23/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2334043
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/23	08/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.5 %	70-130		08/23/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2334064
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
<i>Surrogate: n-Nonane</i>						
	81.0 %	50-200		08/24/23	08/24/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2334075
Chloride	ND	200	10	08/24/23	08/26/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Station Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/29/2023 8:39:41AM
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BH02 - 0'

E308164-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2334043	
Benzene	ND	0.0250	1	08/23/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/23/23	08/24/23	
Toluene	ND	0.0250	1	08/23/23	08/24/23	
o-Xylene	ND	0.0250	1	08/23/23	08/24/23	
p,m-Xylene	ND	0.0500	1	08/23/23	08/24/23	
Total Xylenes	ND	0.0250	1	08/23/23	08/24/23	
Surrogate: 4-Bromochlorobenzene-PID	91.4 %	70-130		08/23/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2334043	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/23	08/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.6 %	70-130		08/23/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2334064	
Diesel Range Organics (C10-C28)	35.9	25.0	1	08/24/23	08/24/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/24/23	
Surrogate: n-Nonane	84.0 %	50-200		08/24/23	08/24/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2334075	
Chloride	21400	400	20	08/24/23	08/26/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster Station
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
8/29/2023 8:39:41AM

BH02 - 1'

E308164-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2334043
Benzene	ND	0.0250	1	08/23/23	08/24/23	
Ethylbenzene	ND	0.0250	1	08/23/23	08/24/23	
Toluene	ND	0.0250	1	08/23/23	08/24/23	
o-Xylene	ND	0.0250	1	08/23/23	08/24/23	
p,m-Xylene	ND	0.0500	1	08/23/23	08/24/23	
Total Xylenes	ND	0.0250	1	08/23/23	08/24/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.2 %	70-130		08/23/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2334043
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/23	08/24/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.8 %	70-130		08/23/23	08/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2334064
Diesel Range Organics (C10-C28)	ND	25.0	1	08/24/23	08/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/24/23	08/25/23	
<i>Surrogate: n-Nonane</i>						
	87.9 %	50-200		08/24/23	08/25/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2334075
Chloride	4720	100	5	08/24/23	08/26/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster Station	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/29/2023 8:39:41AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2334043-BLK1) Prepared: 08/23/23 Analyzed: 08/23/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							

Surrogate: 4-Bromochlorobenzene-PID 6.90 8.00 86.2 70-130

LCS (2334043-BS1) Prepared: 08/23/23 Analyzed: 08/23/23

Benzene	5.10	0.0250	5.00		102	70-130			
Ethylbenzene	4.89	0.0250	5.00		97.9	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.16 8.00 89.5 70-130

Matrix Spike (2334043-MS1) Source: E308161-22 Prepared: 08/23/23 Analyzed: 08/23/23

Benzene	5.54	0.0250	5.00	ND	111	54-133			
Ethylbenzene	5.32	0.0250	5.00	ND	106	61-133			
Toluene	5.54	0.0250	5.00	ND	111	61-130			
o-Xylene	5.47	0.0250	5.00	ND	109	63-131			
p,m-Xylene	11.0	0.0500	10.0	ND	110	63-131			
Total Xylenes	16.5	0.0250	15.0	ND	110	63-131			

Surrogate: 4-Bromochlorobenzene-PID 7.18 8.00 89.8 70-130

Matrix Spike Dup (2334043-MSD1) Source: E308161-22 Prepared: 08/23/23 Analyzed: 08/23/23

Benzene	5.22	0.0250	5.00	ND	104	54-133	5.96	20	
Ethylbenzene	5.01	0.0250	5.00	ND	100	61-133	6.03	20	
Toluene	5.22	0.0250	5.00	ND	104	61-130	5.95	20	
o-Xylene	5.13	0.0250	5.00	ND	103	63-131	6.36	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	5.96	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	6.09	20	

Surrogate: 4-Bromochlorobenzene-PID 7.18 8.00 89.7 70-130



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster Station	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/29/2023 8:39:41AM

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 (2334043-BLK1) Prepared: 08/23/23 Analyzed: 08/23/23

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

LCS (2334043-BS2) Prepared: 08/23/23 Analyzed: 08/23/23

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.6	70-130			

Matrix Spike (2334043-MS2) Source: E308161-22 Prepared: 08/23/23 Analyzed: 08/23/23

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.6	70-130			

Matrix Spike Dup (2334043-MSD2) Source: E308161-22 Prepared: 08/23/23 Analyzed: 08/23/23

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.3	70-130	2.51	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		8.00		87.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster Station	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/29/2023 8:39:41AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2334064-BLK1)					Prepared: 08/24/23 Analyzed: 08/24/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.3		50.0		92.5	50-200			

LCS (2334064-BS1)					Prepared: 08/24/23 Analyzed: 08/24/23				
Diesel Range Organics (C10-C28)	229	25.0	250		91.6	38-132			
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			

Matrix Spike (2334064-MS1)					Source: E308164-02		Prepared: 08/24/23 Analyzed: 08/24/23		
Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.0	38-132			
Surrogate: n-Nonane	38.6		50.0		77.2	50-200			

Matrix Spike Dup (2334064-MSD1)					Source: E308164-02		Prepared: 08/24/23 Analyzed: 08/24/23		
Diesel Range Organics (C10-C28)	240	25.0	250	ND	95.9	38-132	0.174	20	
Surrogate: n-Nonane	40.5		50.0		81.0	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Station Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 8/29/2023 8:39:41AM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2334075-BLK1)					Prepared: 08/24/23 Analyzed: 08/28/23				
Chloride	ND	20.0							
LCS (2334075-BS1)					Prepared: 08/24/23 Analyzed: 08/25/23				
Chloride	245	20.0	250		97.9	90-110			
Matrix Spike (2334075-MS1)					Source: E308163-01		Prepared: 08/24/23 Analyzed: 08/26/23		
Chloride	1900	200	250	1650	102	80-120			
Matrix Spike Dup (2334075-MSD1)					Source: E308163-01		Prepared: 08/24/23 Analyzed: 08/26/23		
Chloride	2110	200	250	1650	185	80-120	10.4	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:	Rustler Breaks 2 Booster Station	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/29/23 08:39

- 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

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

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



Client: Matador Production Company.				Bill To		Lab Use Only				TAT				EPA Program			
Project: Rustler Breaks 2 Booster Station				Attention: Matador Production Company		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovento				Address: on file		E308164		23052-0001					x				
Address: 3122 National Parks Hwy				City, State, Zip:		Analysis and Method									RCRA		
City, State, Zip: Carlsbad NM, 88220				Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055				Email: clinton.talley@matadorresources.com									NM	CO	UT	AZ	TX
Email: agiovento@ensolum.com																	
Report due by:																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks			
8:34	8/21/2023	Soil	1 Jar	SS01 - 0'	1												
8:43	8/21/2023	Soil	1 Jar	SS02 - 0'	2												
9:57	8/21/2023	Soil	1 Jar	SS03 - 0'	3												
8:54	8/21/2023	Soil	1 Jar	SS04 - 0'	4												
8:56	8/21/2023	Soil	1 Jar	SS05 - 0'	5												
10:16	8/21/2023	Soil	1 Jar	SS06 - 0'	6												
11:30	8/21/2023	Soil	1 Jar	BH01 - 0'	7												
10:33	8/21/2023	Soil	1 Jar	BH01 - 2'	8												
11:25	8/21/2023	Soil	1 Jar	BH02 - 0'	9												
11:27	8/21/2023	Soil	1 Jar	BH02 - 1'	10												
Additional Instructions: Please CC: cburton@ensolum.com, agiovento@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only									
Ed Burr		8-22-23	10:15	Michelle Gungles		8-22-23	10:15	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N									
Michelle Gungles		8-22-23	1545	Ashley Giovento		8-22-23	1730	T1 _____ T2 _____ T3 _____									
Ashley Giovento		8-23-23	2400	Caitlin Mann		8-23-23	8:15	AVG Temp °C 4									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Envirotech Analytical Laboratory

Printed: 8/23/2023 12:18:19PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	08/23/23 08:15	Work Order ID:	E308164
Phone:	(972) 371-5200	Date Logged In:	08/22/23 16:52	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	08/29/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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: Rustler Breaks 2 Booster

Work Order: E309039

Job Number: 23052-0001

Received: 9/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/13/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/13/23



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

Project Name: Rustler Breaks 2 Booster
Workorder: E309039
Date Received: 9/7/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/7/2023 8:15:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Alexa Michaels
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labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
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Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported: 09/13/23 14:45
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 - 2'	E309039-01A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/13/2023 2:45:20PM
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BH02 - 2'

E309039-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/09/23	09/11/23	
Surrogate: 4-Bromochlorobenzene-PID	92.7 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2337022	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/12/23	
Surrogate: n-Nonane	104 %	50-200		09/11/23	09/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2337012	
Chloride	361	200	10	09/11/23	09/11/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/13/2023 2:45:20PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2336095-BLK1) Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

LCS (2336095-BS1) Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.75	0.0250	5.00		95.0	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.5	0.0250	15.0		96.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike (2336095-MS1) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.65	0.0250	5.00	ND	93.0	54-133			
Ethylbenzene	4.66	0.0250	5.00	ND	93.1	61-133			
Toluene	4.70	0.0250	5.00	ND	94.0	61-130			
o-Xylene	4.68	0.0250	5.00	ND	93.6	63-131			
p,m-Xylene	9.53	0.0500	10.0	ND	95.3	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2336095-MSD1) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.49	0.0250	5.00	ND	89.8	54-133	3.55	20	
Ethylbenzene	4.48	0.0250	5.00	ND	89.5	61-133	3.94	20	
Toluene	4.51	0.0250	5.00	ND	90.3	61-130	4.06	20	
o-Xylene	4.50	0.0250	5.00	ND	90.0	63-131	3.84	20	
p,m-Xylene	9.15	0.0500	10.0	ND	91.5	63-131	4.03	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.0	63-131	3.97	20	
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/13/2023 2:45:20PM

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 (2336095-BLK1) Prepared: 09/09/23 Analyzed: 09/11/23

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

LCS (2336095-BS2) Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

Matrix Spike (2336095-MS2) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2336095-MSD2) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.5	70-130	4.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/13/2023 2:45:20PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337022-BLK1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.2		50.0		104	50-200			

LCS (2337022-BS1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

Matrix Spike (2337022-MS1)					Source: E309034-02		Prepared: 09/11/23 Analyzed: 09/11/23		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			

Matrix Spike Dup (2337022-MSD1)					Source: E309034-02		Prepared: 09/11/23 Analyzed: 09/11/23		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132	1.15	20	
Surrogate: n-Nonane	54.0		50.0		108	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/13/2023 2:45:20PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337012-BLK1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Chloride	ND	20.0							
LCS (2337012-BS1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Chloride	244	20.0	250		97.5	90-110			
Matrix Spike (2337012-MS1)					Source: E309039-01		Prepared: 09/11/23 Analyzed: 09/11/23		
Chloride	587	200	250	361	90.2	80-120			
Matrix Spike Dup (2337012-MSD1)					Source: E309039-01		Prepared: 09/11/23 Analyzed: 09/11/23		
Chloride	636	200	250	361	110	80-120	8.12	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/13/23 14:45

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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





Envirotech Analytical Laboratory

Printed: 9/7/2023 9:11:30AM

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:	09/07/23 08:15	Work Order ID:	E309039
Phone:	(972) 371-5200	Date Logged In:	09/06/23 14:57	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/13/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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: Rustler Breaks 2 Booster

Work Order: E309040

Job Number: 23052-0001

Received: 9/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/13/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/13/23

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



Project Name: Rustler Breaks 2 Booster
Workorder: E309040
Date Received: 9/7/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/7/2023 8:15:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
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Sample Summary

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/13/23 14:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 - 3'	E309040-01A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/13/2023 2:54:06PM
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BH02 - 3'

E309040-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	91.4 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.2 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2337003	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
<i>Surrogate: n-Nonane</i>	119 %	50-200		09/11/23	09/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2337012	
Chloride	709	400	20	09/11/23	09/11/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/13/2023 2:54:06PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2336095-BLK1) Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

LCS (2336095-BS1) Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.75	0.0250	5.00		95.0	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.5	0.0250	15.0		96.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike (2336095-MS1) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.65	0.0250	5.00	ND	93.0	54-133			
Ethylbenzene	4.66	0.0250	5.00	ND	93.1	61-133			
Toluene	4.70	0.0250	5.00	ND	94.0	61-130			
o-Xylene	4.68	0.0250	5.00	ND	93.6	63-131			
p,m-Xylene	9.53	0.0500	10.0	ND	95.3	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2336095-MSD1) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.49	0.0250	5.00	ND	89.8	54-133	3.55	20	
Ethylbenzene	4.48	0.0250	5.00	ND	89.5	61-133	3.94	20	
Toluene	4.51	0.0250	5.00	ND	90.3	61-130	4.06	20	
o-Xylene	4.50	0.0250	5.00	ND	90.0	63-131	3.84	20	
p,m-Xylene	9.15	0.0500	10.0	ND	91.5	63-131	4.03	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.0	63-131	3.97	20	
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/13/2023 2:54:06PM

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 (2336095-BLK1) Prepared: 09/09/23 Analyzed: 09/11/23

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

LCS (2336095-BS2) Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

Matrix Spike (2336095-MS2) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2336095-MSD2) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.5	70-130	4.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/13/2023 2:54:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337003-BLK1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.3		50.0		127	50-200			

LCS (2337003-BS1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	50.6		50.0		101	50-200			

Matrix Spike (2337003-MS1)					Source: E309042-02		Prepared: 09/11/23 Analyzed: 09/11/23		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike Dup (2337003-MSD1)					Source: E309042-02		Prepared: 09/11/23 Analyzed: 09/11/23		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132	0.651	20	
Surrogate: n-Nonane	51.6		50.0		103	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/13/2023 2:54:06PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337012-BLK1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Chloride	ND	20.0							
LCS (2337012-BS1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Chloride	244	20.0	250		97.5	90-110			
Matrix Spike (2337012-MS1)					Source: E309039-01		Prepared: 09/11/23 Analyzed: 09/11/23		
Chloride	587	200	250	361	90.2	80-120			
Matrix Spike Dup (2337012-MSD1)					Source: E309039-01		Prepared: 09/11/23 Analyzed: 09/11/23		
Chloride	636	200	250	361	110	80-120	8.12	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/13/23 14:54

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

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Envirotech Analytical Laboratory

Printed: 9/7/2023 9:14:29AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/07/23 08:15	Work Order ID:	E309040
Phone:	(972) 371-5200	Date Logged In:	09/06/23 15:00	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/13/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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: Rustler Breaks 2 Booster

Work Order: E309041

Job Number: 23052-0001

Received: 9/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/13/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/13/23

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



Project Name: Rustler Breaks 2 Booster
Workorder: E309041
Date Received: 9/7/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/7/2023 8:15:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster 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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West Texas Midland/Odessa Area
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 09/13/23 14:53
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01 - 3'	E309041-01A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.
BG01 - 4'	E309041-02A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/13/2023 2:53:46PM
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BG01 - 3'

E309041-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.8 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.6 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2337003	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
<i>Surrogate: n-Nonane</i>	123 %	50-200		09/11/23	09/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2337012	
Chloride	597	400	20	09/11/23	09/11/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/13/2023 2:53:46PM

BG01 - 4'

E309041-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337003
Diesel Range Organics (C10-C28)	55.3	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
<i>Surrogate: n-Nonane</i>						
	123 %	50-200		09/11/23	09/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337012
Chloride	ND	400	20	09/11/23	09/11/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/13/2023 2:53:46PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2336095-BLK1) Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

LCS (2336095-BS1) Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.75	0.0250	5.00		95.0	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.5	0.0250	15.0		96.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike (2336095-MS1) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.65	0.0250	5.00	ND	93.0	54-133			
Ethylbenzene	4.66	0.0250	5.00	ND	93.1	61-133			
Toluene	4.70	0.0250	5.00	ND	94.0	61-130			
o-Xylene	4.68	0.0250	5.00	ND	93.6	63-131			
p,m-Xylene	9.53	0.0500	10.0	ND	95.3	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2336095-MSD1) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.49	0.0250	5.00	ND	89.8	54-133	3.55	20	
Ethylbenzene	4.48	0.0250	5.00	ND	89.5	61-133	3.94	20	
Toluene	4.51	0.0250	5.00	ND	90.3	61-130	4.06	20	
o-Xylene	4.50	0.0250	5.00	ND	90.0	63-131	3.84	20	
p,m-Xylene	9.15	0.0500	10.0	ND	91.5	63-131	4.03	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.0	63-131	3.97	20	
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/13/2023 2:53:46PM

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 (2336095-BLK1) Prepared: 09/09/23 Analyzed: 09/11/23

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

LCS (2336095-BS2) Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

Matrix Spike (2336095-MS2) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2336095-MSD2) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.5	70-130	4.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/13/2023 2:53:46PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337003-BLK1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.3		50.0		127	50-200			

LCS (2337003-BS1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	50.6		50.0		101	50-200			

Matrix Spike (2337003-MS1)					Source: E309042-02		Prepared: 09/11/23 Analyzed: 09/11/23		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike Dup (2337003-MSD1)					Source: E309042-02		Prepared: 09/11/23 Analyzed: 09/11/23		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132	0.651	20	
Surrogate: n-Nonane	51.6		50.0		103	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/13/2023 2:53:46PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337012-BLK1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Chloride	ND	20.0							
LCS (2337012-BS1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Chloride	244	20.0	250		97.5	90-110			
Matrix Spike (2337012-MS1)					Source: E309039-01		Prepared: 09/11/23 Analyzed: 09/11/23		
Chloride	587	200	250	361	90.2	80-120			
Matrix Spike Dup (2337012-MSD1)					Source: E309039-01		Prepared: 09/11/23 Analyzed: 09/11/23		
Chloride	636	200	250	361	110	80-120	8.12	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/13/23 14:53

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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





Envirotech Analytical Laboratory

Printed: 9/7/2023 9:17:32AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/07/23 08:15	Work Order ID:	E309041
Phone:	(972) 371-5200	Date Logged In:	09/06/23 15:03	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/13/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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: Rustler Breaks 2 Booster

Work Order: E309042

Job Number: 23052-0001

Received: 9/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/13/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/13/23

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



Project Name: Rustler Breaks 2 Booster
Workorder: E309042
Date Received: 9/7/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/7/2023 8:15:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 09/13/23 14:52
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 - 4'	E309042-01A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.
BH02 - 6'	E309042-02A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.
BH02 - 8'	E309042-03A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.
BH02 - 10'	E309042-04A	Soil	09/05/23	09/07/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/13/2023 2:52:37PM
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BH02 - 4'

E309042-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.6 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.8 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2337003	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
<i>Surrogate: n-Nonane</i>	116 %	50-200		09/11/23	09/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2337012	
Chloride	987	400	20	09/11/23	09/11/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/13/2023 2:52:37PM
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BH02 - 6'

E309042-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.0 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2336095	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.6 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2337003	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
<i>Surrogate: n-Nonane</i>	98.8 %	50-200		09/11/23	09/11/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2337012	
Chloride	909	400	20	09/11/23	09/11/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/13/2023 2:52:37PM

BH02 - 8'**E309042-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
<i>Surrogate: n-Nonane</i>						
	99.4 %	50-200		09/11/23	09/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337012
Chloride	912	400	20	09/11/23	09/12/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/13/2023 2:52:37PM

BH02 - 10'

E309042-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Benzene	ND	0.0250	1	09/09/23	09/11/23	
Ethylbenzene	ND	0.0250	1	09/09/23	09/11/23	
Toluene	ND	0.0250	1	09/09/23	09/11/23	
o-Xylene	ND	0.0250	1	09/09/23	09/11/23	
p,m-Xylene	ND	0.0500	1	09/09/23	09/11/23	
Total Xylenes	ND	0.0250	1	09/09/23	09/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2336095
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/23	09/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		09/09/23	09/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337003
Diesel Range Organics (C10-C28)	ND	25.0	1	09/11/23	09/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/11/23	09/11/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		09/11/23	09/11/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337012
Chloride	751	400	20	09/11/23	09/12/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/13/2023 2:52:37PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2336095-BLK1) Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

LCS (2336095-BS1) Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.75	0.0250	5.00		95.0	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.0	70-130			
Toluene	4.77	0.0250	5.00		95.4	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.5	0.0250	15.0		96.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

Matrix Spike (2336095-MS1) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.65	0.0250	5.00	ND	93.0	54-133			
Ethylbenzene	4.66	0.0250	5.00	ND	93.1	61-133			
Toluene	4.70	0.0250	5.00	ND	94.0	61-130			
o-Xylene	4.68	0.0250	5.00	ND	93.6	63-131			
p,m-Xylene	9.53	0.0500	10.0	ND	95.3	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2336095-MSD1) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Benzene	4.49	0.0250	5.00	ND	89.8	54-133	3.55	20	
Ethylbenzene	4.48	0.0250	5.00	ND	89.5	61-133	3.94	20	
Toluene	4.51	0.0250	5.00	ND	90.3	61-130	4.06	20	
o-Xylene	4.50	0.0250	5.00	ND	90.0	63-131	3.84	20	
p,m-Xylene	9.15	0.0500	10.0	ND	91.5	63-131	4.03	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.0	63-131	3.97	20	
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/13/2023 2:52:37PM

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 (2336095-BLK1) Prepared: 09/09/23 Analyzed: 09/11/23

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

LCS (2336095-BS2) Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

Matrix Spike (2336095-MS2) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2336095-MSD2) Source: E309039-01 Prepared: 09/09/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.5	70-130	4.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/13/2023 2:52:37PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337003-BLK1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.3		50.0		127	50-200			

LCS (2337003-BS1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	50.6		50.0		101	50-200			

Matrix Spike (2337003-MS1)					Source: E309042-02		Prepared: 09/11/23 Analyzed: 09/11/23		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike Dup (2337003-MSD1)					Source: E309042-02		Prepared: 09/11/23 Analyzed: 09/11/23		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132	0.651	20	
Surrogate: n-Nonane	51.6		50.0		103	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/13/2023 2:52:37PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337012-BLK1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Chloride	ND	20.0							
LCS (2337012-BS1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Chloride	244	20.0	250		97.5	90-110			
Matrix Spike (2337012-MS1)					Source: E309039-01		Prepared: 09/11/23 Analyzed: 09/11/23		
Chloride	587	200	250	361	90.2	80-120			
Matrix Spike Dup (2337012-MSD1)					Source: E309039-01		Prepared: 09/11/23 Analyzed: 09/11/23		
Chloride	636	200	250	361	110	80-120	8.12	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/13/23 14:52

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

Client: Matador Production Company.	Bill To Attention: Matador Production Company Address: on file City, State, Zip: Phone: (337)319-8398 Email: clinton.talley@matadorresources.com	Lab Use Only				TAT				EPA Program						
Project: Rustler Breaks 2 Booster		Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Ashley Giovengo		E309042	23052-0001						x							
Address: 3122 National Parks Hwy		Analysis and Method									RCRA					
City, State, Zip: Carlsbad NM, 88220		W/DRO/ORO by 8021 4260 1010 300.0 NM TX									State					
Phone: 575-988-0055											NM	CO	UT	AZ	TX	
Email: agiovengo@ensolum.com																
Report due by:																

[illegible]

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

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

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

Relinquished by: (Signature) <i>[Signature]</i>	Date 9-6-23	Time 7:07	Received by: (Signature) <i>[Signature]</i>	Date 9-6-23	Time 0707	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 9-6-23	Time 1530	Received by: (Signature) <i>[Signature]</i>	Date 9-6-23	Time 1600	
Relinquished by: (Signature) <i>[Signature]</i>	Date 9-7-23	Time 0100	Received by: (Signature) <i>[Signature]</i>	Date 9/7/23	Time 8:15	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other				Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA		

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

Envirotech Analytical Laboratory

Printed: 9/7/2023 9:19:52AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/07/23 08:15	Work Order ID:	E309042
Phone:	(972) 371-5200	Date Logged In:	09/06/23 15:07	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/13/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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: Rustler Breaks 2 Booster

Work Order: E311206

Job Number: 23052-0001

Received: 11/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/4/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/4/23

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



Project Name: Rustler Breaks 2 Booster
Workorder: E311206
Date Received: 11/28/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/28/2023 7:30:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/04/23 15:17
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02-3'	E311206-01A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
FS03-2'	E311206-02A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
FS05-3'	E311206-03A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
FS07-2'	E311206-04A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
FS14-2'	E311206-05A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
FS15-2'	E311206-06A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
FS16-2'	E311206-07A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
FS17-2.5'	E311206-08A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
FS18-2.5'	E311206-09A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
FS19-2'	E311206-10A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
FS20-2'	E311206-11A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/4/2023 3:17:49PM

FS02-3'

E311206-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	109 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	97.2 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	109 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2348102
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/02/23	
Surrogate: n-Nonane	71.9 %	50-200		12/01/23	12/02/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348081
Chloride	425	200	10	11/30/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/4/2023 3:17:49PM

FS03-2'

E311206-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	99.2 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	113 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	99.2 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	113 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2348102
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/02/23	
Surrogate: n-Nonane	77.8 %	50-200		12/01/23	12/02/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348081
Chloride	534	200	10	11/30/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/4/2023 3:17:49PM

FS05-3'

E311206-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	110 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	97.5 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	110 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2348102
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/02/23	
Surrogate: n-Nonane	80.8 %	50-200		12/01/23	12/02/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348081
Chloride	423	200	10	11/30/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/4/2023 3:17:49PM

FS07-2'

E311206-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	96.2 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	111 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	96.2 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	111 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2348102
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/02/23	
Surrogate: n-Nonane	86.3 %	50-200		12/01/23	12/02/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348081
Chloride	381	200	10	11/30/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/4/2023 3:17:49PM

FS14-2'

E311206-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/28/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/28/23	
Toluene	ND	0.0250	1	11/28/23	11/28/23	
o-Xylene	ND	0.0250	1	11/28/23	11/28/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/28/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	107 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/28/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		11/28/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		11/28/23	11/28/23	
Surrogate: Toluene-d8	107 %	70-130		11/28/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2348102
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/02/23	
Surrogate: n-Nonane	83.9 %	50-200		12/01/23	12/02/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348081
Chloride	450	200	10	11/30/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/4/2023 3:17:49PM

FS15-2'

E311206-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene	99.8 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8	112 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene	99.8 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8	112 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2348102
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/02/23	
Surrogate: n-Nonane	80.8 %	50-200		12/01/23	12/02/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348081
Chloride	450	200	10	11/30/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/4/2023 3:17:49PM

FS16-2'

E311206-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene	99.9 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8	111 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene	99.9 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8	111 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2348102
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/02/23	
Surrogate: n-Nonane	79.5 %	50-200		12/01/23	12/02/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348081
Chloride	537	200	10	11/30/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/4/2023 3:17:49PM

FS17-2.5'

E311206-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8	111 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8	111 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2348102
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/02/23	
Surrogate: n-Nonane	80.4 %	50-200		12/01/23	12/02/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348081
Chloride	500	200	10	11/30/23	12/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/4/2023 3:17:49PM
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FS18-2.5'

E311206-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene	98.2 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8	110 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene	98.2 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8	110 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2348102
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/02/23	
Surrogate: n-Nonane	79.7 %	50-200		12/01/23	12/02/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348081
Chloride	273	200	10	11/30/23	12/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/4/2023 3:17:49PM
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FS19-2'

E311206-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8	111 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		11/28/23	11/29/23	
Surrogate: Toluene-d8	111 %	70-130		11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2348102
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/02/23	
Surrogate: n-Nonane	83.1 %	50-200		12/01/23	12/02/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348081
Chloride	330	200	10	11/30/23	12/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/4/2023 3:17:49PM
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FS20-2'

E311206-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	11/28/23	11/29/23	
Surrogate: Toluene-d8		112 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2348037
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/28/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	11/28/23	11/29/23	
Surrogate: Toluene-d8		112 %	70-130	11/28/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2348102
Diesel Range Organics (C10-C28)	ND	25.0	1	12/01/23	12/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/01/23	12/02/23	
Surrogate: n-Nonane		81.3 %	50-200	12/01/23	12/02/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2348081
Chloride	255	200	10	11/30/23	12/04/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/4/2023 3:17:49PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

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

Blank (2348037-BLK1) Prepared: 11/28/23 Analyzed: 11/28/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.563		0.500		113	70-130			

LCS (2348037-BS1) Prepared: 11/28/23 Analyzed: 11/28/23

Benzene	2.79	0.0250	2.50		112	70-130			
Ethylbenzene	2.73	0.0250	2.50		109	70-130			
Toluene	2.82	0.0250	2.50		113	70-130			
o-Xylene	2.63	0.0250	2.50		105	70-130			
p,m-Xylene	5.30	0.0500	5.00		106	70-130			
Total Xylenes	7.93	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

Matrix Spike (2348037-MS1) Source: E311205-06 Prepared: 11/28/23 Analyzed: 11/28/23

Benzene	2.74	0.0250	2.50	ND	110	48-131			
Ethylbenzene	2.71	0.0250	2.50	ND	108	45-135			
Toluene	2.79	0.0250	2.50	ND	112	48-130			
o-Xylene	2.55	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.18	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.73	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	0.481		0.500		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			

Matrix Spike Dup (2348037-MSD1) Source: E311205-06 Prepared: 11/28/23 Analyzed: 11/28/23

Benzene	2.77	0.0250	2.50	ND	111	48-131	0.998	23	
Ethylbenzene	2.75	0.0250	2.50	ND	110	45-135	1.65	27	
Toluene	2.88	0.0250	2.50	ND	115	48-130	3.23	24	
o-Xylene	2.60	0.0250	2.50	ND	104	43-135	1.91	27	
p,m-Xylene	5.26	0.0500	5.00	ND	105	43-135	1.37	27	
Total Xylenes	7.85	0.0250	7.50	ND	105	43-135	1.55	27	
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/4/2023 3:17:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2348037-BLK1) Prepared: 11/28/23 Analyzed: 11/28/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.563		0.500		113	70-130			

LCS (2348037-BS2) Prepared: 11/28/23 Analyzed: 11/28/23

Gasoline Range Organics (C6-C10)	57.8	20.0	50.0		116	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.559		0.500		112	70-130			

Matrix Spike (2348037-MS2) Source: E311205-06 Prepared: 11/28/23 Analyzed: 11/28/23

Gasoline Range Organics (C6-C10)	55.3	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.561		0.500		112	70-130			

Matrix Spike Dup (2348037-MSD2) Source: E311205-06 Prepared: 11/28/23 Analyzed: 11/28/23

Gasoline Range Organics (C6-C10)	57.2	20.0	50.0	ND	114	70-130	3.44	20	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.553		0.500		111	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/4/2023 3:17:49PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2348102-BLK1)					Prepared: 12/01/23 Analyzed: 12/02/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.8		50.0		83.6	50-200			

LCS (2348102-BS1)					Prepared: 12/01/23 Analyzed: 12/02/23				
Diesel Range Organics (C10-C28)	231	25.0	250		92.6	38-132			
Surrogate: n-Nonane	41.8		50.0		83.5	50-200			

Matrix Spike (2348102-MS1)					Source: E311206-04		Prepared: 12/01/23 Analyzed: 12/02/23		
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.2	38-132			
Surrogate: n-Nonane	44.4		50.0		88.9	50-200			

Matrix Spike Dup (2348102-MSD1)					Source: E311206-04		Prepared: 12/01/23 Analyzed: 12/02/23		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	4.76	20	
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/4/2023 3:17:49PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2348081-BLK1)					Prepared: 11/30/23 Analyzed: 12/04/23				
Chloride	ND	20.0							
LCS (2348081-BS1)					Prepared: 11/30/23 Analyzed: 12/04/23				
Chloride	247	20.0	250		99.0	90-110			
Matrix Spike (2348081-MS1)					Source: E311134-05		Prepared: 11/30/23 Analyzed: 12/04/23		
Chloride	1370	40.0	250	1080	115	80-120			
Matrix Spike Dup (2348081-MSD1)					Source: E311134-05		Prepared: 11/30/23 Analyzed: 12/04/23		
Chloride	1300	40.0	250	1080	90.8	80-120	4.59	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/04/23 15:17

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with ** are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: Matador Production Company.	Bill To Attention: Matador Production Company Address: on file City, State, Zip: Phone: (337)319-8398 Email: clinton.talley@matadorresources.com	Lab Use Only					TAT				EPA Program		
Project: Rustler Breaks 2 Booster		Lab WO#	Job Number				1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo		E 311206	23052-0001							x			
Address: 3122 National Parks Hwy		Analysis and Method											RCRA
City, State, Zip: Carlsbad NM, 88220		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055									NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com	x												
Report due by:	Remarks												

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
9:13	11/22/2023	Soil	1 Jar	FS02 - 3'	1						x		
9:15	11/22/2023	Soil	1 Jar	FS03 - 2'	2						x		
9:20	11/22/2023	Soil	1 Jar	FS05 - 3'	3						x		
9:29	11/22/2023	Soil	1 Jar	FS07 - 2'	4						x		
9:56	11/22/2023	Soil	1 Jar	FS14 - 2'	5						x		
9:58	11/22/2023	Soil	1 Jar	FS15 - 2'	6						x		
10:07	11/22/2023	Soil	1 Jar	FS16 - 2'	7						x		
12:55	11/22/2023	Soil	1 Jar	FS17 - 2.5'	8						x		
12:53	11/22/2023	Soil	1 Jar	FS18 - 2.5'	9						x		
10:14	11/22/2023	Soil	1 Jar	FS19 - 2'	10						x		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only			
<i>[Signature]</i>		11-27-23	7:33	<i>[Signature]</i>		11-27-23	1123	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3			
<i>[Signature]</i>		11-27-23	1630	<i>[Signature]</i>		11-27-23	1700				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C			
<i>[Signature]</i>		11-27-23	2245	<i>[Signature]</i>		11/28/23	7:30	4			

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

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

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



envirotech

Page 22 of 23

Envirotech Analytical Laboratory

Printed: 11/28/2023 9:35:53AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	11/28/23 07:30	Work Order ID:	E311206
Phone:	(972) 371-5200	Date Logged In:	11/27/23 14:53	Logged In By:	Jordan Montano
Email:	agiovngo@ensolum.com	Due Date:	12/04/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Sampled by not provided on COC per client.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? 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: Rustler Breaks 2 Booster

Work Order: E311219

Job Number: 23052-0001

Received: 11/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/5/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
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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: 12/5/23



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

Project Name: Rustler Breaks 2 Booster
Workorder: E311219
Date Received: 11/28/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/28/2023 8:30:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/05/23 16:16
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS04-3'	E311219-01A	Soil	11/27/23	11/28/23	Glass Jar, 2 oz.
FS06-3'	E311219-02A	Soil	11/27/23	11/28/23	Glass Jar, 2 oz.
FS09-3'	E311219-03A	Soil	11/27/23	11/28/23	Glass Jar, 2 oz.
FS12-3'	E311219-04A	Soil	11/27/23	11/28/23	Glass Jar, 2 oz.
FS13-3'	E311219-05A	Soil	11/27/23	11/28/23	Glass Jar, 2 oz.
FS21-2'	E311219-06A	Soil	11/27/23	11/28/23	Glass Jar, 2 oz.
FS23-4'	E311219-07A	Soil	11/27/23	11/28/23	Glass Jar, 2 oz.
FS24-2'	E311219-08A	Soil	11/27/23	11/28/23	Glass Jar, 2 oz.
FS25-1'	E311219-09A	Soil	11/27/23	11/28/23	Glass Jar, 2 oz.
FS26-4'	E311219-10A	Soil	11/27/23	11/28/23	Glass Jar, 2 oz.
SW03-0-3'	E311219-11A	Soil	11/27/23	11/28/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/5/2023 4:16:32PM

FS04-3'

E311219-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Benzene	ND	0.0250	1	11/29/23	12/01/23	
Ethylbenzene	ND	0.0250	1	11/29/23	12/01/23	
Toluene	ND	0.0250	1	11/29/23	12/01/23	
o-Xylene	ND	0.0250	1	11/29/23	12/01/23	
p,m-Xylene	ND	0.0500	1	11/29/23	12/01/23	
Total Xylenes	ND	0.0250	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene	105 %	70-130		11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		11/29/23	12/01/23	
Surrogate: Toluene-d8	112 %	70-130		11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene	105 %	70-130		11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		11/29/23	12/01/23	
Surrogate: Toluene-d8	112 %	70-130		11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane	83.3 %	50-200		12/04/23	12/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349009
Chloride	250	200	10	12/04/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/5/2023 4:16:32PM

FS06-3'

E311219-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Benzene	ND	0.0250	1	11/29/23	12/01/23	
Ethylbenzene	ND	0.0250	1	11/29/23	12/01/23	
Toluene	ND	0.0250	1	11/29/23	12/01/23	
o-Xylene	ND	0.0250	1	11/29/23	12/01/23	
p,m-Xylene	ND	0.0500	1	11/29/23	12/01/23	
Total Xylenes	ND	0.0250	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	11/29/23	12/01/23	
Surrogate: Toluene-d8		113 %	70-130	11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene		100 %	70-130	11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	11/29/23	12/01/23	
Surrogate: Toluene-d8		113 %	70-130	11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane		83.7 %	50-200	12/04/23	12/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349009
Chloride	216	200	10	12/04/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/5/2023 4:16:32PM

FS09-3'

E311219-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Benzene	ND	0.0250	1	11/29/23	12/01/23	
Ethylbenzene	ND	0.0250	1	11/29/23	12/01/23	
Toluene	ND	0.0250	1	11/29/23	12/01/23	
o-Xylene	ND	0.0250	1	11/29/23	12/01/23	
p,m-Xylene	ND	0.0500	1	11/29/23	12/01/23	
Total Xylenes	ND	0.0250	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene		101 %	70-130	11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	11/29/23	12/01/23	
Surrogate: Toluene-d8		112 %	70-130	11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene		101 %	70-130	11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	11/29/23	12/01/23	
Surrogate: Toluene-d8		112 %	70-130	11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane		81.9 %	50-200	12/04/23	12/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349009
Chloride	ND	200	10	12/04/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/5/2023 4:16:32PM

FS12-3'

E311219-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Benzene	ND	0.0250	1	11/29/23	12/01/23	
Ethylbenzene	ND	0.0250	1	11/29/23	12/01/23	
Toluene	ND	0.0250	1	11/29/23	12/01/23	
o-Xylene	ND	0.0250	1	11/29/23	12/01/23	
p,m-Xylene	ND	0.0500	1	11/29/23	12/01/23	
Total Xylenes	ND	0.0250	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene		102 %	70-130	11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	11/29/23	12/01/23	
Surrogate: Toluene-d8		114 %	70-130	11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene		102 %	70-130	11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	11/29/23	12/01/23	
Surrogate: Toluene-d8		114 %	70-130	11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane		80.1 %	50-200	12/04/23	12/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349009
Chloride	ND	200	10	12/04/23	12/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/5/2023 4:16:32PM
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FS13-3'

E311219-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Benzene	ND	0.0250	1	11/29/23	12/01/23	
Ethylbenzene	ND	0.0250	1	11/29/23	12/01/23	
Toluene	ND	0.0250	1	11/29/23	12/01/23	
o-Xylene	ND	0.0250	1	11/29/23	12/01/23	
p,m-Xylene	ND	0.0500	1	11/29/23	12/01/23	
Total Xylenes	ND	0.0250	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		11/29/23	12/01/23	
Surrogate: Toluene-d8	115 %	70-130		11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		11/29/23	12/01/23	
Surrogate: Toluene-d8	115 %	70-130		11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane	77.8 %	50-200		12/04/23	12/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349009
Chloride	365	200	10	12/04/23	12/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/5/2023 4:16:32PM
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FS21-2'

E311219-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Benzene	ND	0.0250	1	11/29/23	12/01/23	
Ethylbenzene	ND	0.0250	1	11/29/23	12/01/23	
Toluene	ND	0.0250	1	11/29/23	12/01/23	
o-Xylene	ND	0.0250	1	11/29/23	12/01/23	
p,m-Xylene	ND	0.0500	1	11/29/23	12/01/23	
Total Xylenes	ND	0.0250	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene	99.6 %	70-130		11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		11/29/23	12/01/23	
Surrogate: Toluene-d8	113 %	70-130		11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene	99.6 %	70-130		11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		11/29/23	12/01/23	
Surrogate: Toluene-d8	113 %	70-130		11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane	86.9 %	50-200		12/04/23	12/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349009
Chloride	ND	200	10	12/04/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/5/2023 4:16:32PM

FS23-4'

E311219-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Benzene	ND	0.0250	1	11/29/23	12/01/23	
Ethylbenzene	ND	0.0250	1	11/29/23	12/01/23	
Toluene	ND	0.0250	1	11/29/23	12/01/23	
o-Xylene	ND	0.0250	1	11/29/23	12/01/23	
p,m-Xylene	ND	0.0500	1	11/29/23	12/01/23	
Total Xylenes	ND	0.0250	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene		103 %	70-130	11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	11/29/23	12/01/23	
Surrogate: Toluene-d8		112 %	70-130	11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene		103 %	70-130	11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	11/29/23	12/01/23	
Surrogate: Toluene-d8		112 %	70-130	11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane		80.9 %	50-200	12/04/23	12/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349009
Chloride	2160	200	10	12/04/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/5/2023 4:16:32PM

FS24-2'

E311219-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Benzene	ND	0.0250	1	11/29/23	12/01/23	
Ethylbenzene	ND	0.0250	1	11/29/23	12/01/23	
Toluene	ND	0.0250	1	11/29/23	12/01/23	
o-Xylene	ND	0.0250	1	11/29/23	12/01/23	
p,m-Xylene	ND	0.0500	1	11/29/23	12/01/23	
Total Xylenes	ND	0.0250	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		11/29/23	12/01/23	
Surrogate: Toluene-d8	114 %	70-130		11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		11/29/23	12/01/23	
Surrogate: Toluene-d8	114 %	70-130		11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane	83.2 %	50-200		12/04/23	12/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349009
Chloride	231	200	10	12/04/23	12/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/5/2023 4:16:32PM
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FS25-1'

E311219-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Benzene	ND	0.0250	1	11/29/23	12/01/23	
Ethylbenzene	ND	0.0250	1	11/29/23	12/01/23	
Toluene	ND	0.0250	1	11/29/23	12/01/23	
o-Xylene	ND	0.0250	1	11/29/23	12/01/23	
p,m-Xylene	ND	0.0500	1	11/29/23	12/01/23	
Total Xylenes	ND	0.0250	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene		102 %	70-130	11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/29/23	12/01/23	
Surrogate: Toluene-d8		112 %	70-130	11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene		102 %	70-130	11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/29/23	12/01/23	
Surrogate: Toluene-d8		112 %	70-130	11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/04/23	
Surrogate: n-Nonane		85.9 %	50-200	12/04/23	12/04/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349009
Chloride	345	200	10	12/04/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/5/2023 4:16:32PM

FS26-4'

E311219-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Benzene	ND	0.0250	1	11/29/23	12/01/23	
Ethylbenzene	ND	0.0250	1	11/29/23	12/01/23	
Toluene	ND	0.0250	1	11/29/23	12/01/23	
o-Xylene	ND	0.0250	1	11/29/23	12/01/23	
p,m-Xylene	ND	0.0500	1	11/29/23	12/01/23	
Total Xylenes	ND	0.0250	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		11/29/23	12/01/23	
Surrogate: Toluene-d8	116 %	70-130		11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		11/29/23	12/01/23	
Surrogate: Toluene-d8	116 %	70-130		11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/05/23	
Surrogate: n-Nonane	84.4 %	50-200		12/04/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349009
Chloride	592	200	10	12/04/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/5/2023 4:16:32PM

SW03-0-3'

E311219-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Benzene	ND	0.0250	1	11/29/23	12/01/23	
Ethylbenzene	ND	0.0250	1	11/29/23	12/01/23	
Toluene	ND	0.0250	1	11/29/23	12/01/23	
o-Xylene	ND	0.0250	1	11/29/23	12/01/23	
p,m-Xylene	ND	0.0500	1	11/29/23	12/01/23	
Total Xylenes	ND	0.0250	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene		101 %	70-130	11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	11/29/23	12/01/23	
Surrogate: Toluene-d8		114 %	70-130	11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348053
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/29/23	12/01/23	
Surrogate: Bromofluorobenzene		101 %	70-130	11/29/23	12/01/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	11/29/23	12/01/23	
Surrogate: Toluene-d8		114 %	70-130	11/29/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/05/23	
Surrogate: n-Nonane		82.1 %	50-200	12/04/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349009
Chloride	411	200	10	12/04/23	12/04/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/5/2023 4:16:32PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2348053-BLK1) Prepared: 11/29/23 Analyzed: 12/01/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.570		0.500		114	70-130			

LCS (2348053-BS1) Prepared: 11/29/23 Analyzed: 12/01/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.63	0.0250	2.50		105	70-130			
Toluene	2.75	0.0250	2.50		110	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	5.12	0.0500	5.00		102	70-130			
Total Xylenes	7.63	0.0250	7.50		102	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.525		0.500		105	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			

Matrix Spike (2348053-MS1) Source: E311219-06 Prepared: 11/29/23 Analyzed: 12/01/23

Benzene	2.48	0.0250	2.50	ND	99.0	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.69	0.0250	2.50	ND	107	48-130			
o-Xylene	2.43	0.0250	2.50	ND	97.3	43-135			
p,m-Xylene	4.89	0.0500	5.00	ND	97.7	43-135			
Total Xylenes	7.32	0.0250	7.50	ND	97.6	43-135			
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.567		0.500		113	70-130			

Matrix Spike Dup (2348053-MSD1) Source: E311219-06 Prepared: 11/29/23 Analyzed: 12/01/23

Benzene	2.60	0.0250	2.50	ND	104	48-131	4.87	23	
Ethylbenzene	2.70	0.0250	2.50	ND	108	45-135	4.71	27	
Toluene	2.82	0.0250	2.50	ND	113	48-130	4.71	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	7.71	27	
p,m-Xylene	5.30	0.0500	5.00	ND	106	43-135	8.18	27	
Total Xylenes	7.93	0.0250	7.50	ND	106	43-135	8.02	27	
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.558		0.500		112	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/5/2023 4:16:32PM

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 (2348053-BLK1) Prepared: 11/29/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.570		0.500		114	70-130			

LCS (2348053-BS2) Prepared: 11/29/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	54.5	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.572		0.500		114	70-130			

Matrix Spike (2348053-MS2) Source: E311219-06 Prepared: 11/29/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.571		0.500		114	70-130			

Matrix Spike Dup (2348053-MSD2) Source: E311219-06 Prepared: 11/29/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130	2.29	20	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.585		0.500		117	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/5/2023 4:16:32PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349001-BLK1)					Prepared: 12/04/23 Analyzed: 12/04/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.7		50.0		85.5	50-200			

LCS (2349001-BS1)					Prepared: 12/04/23 Analyzed: 12/04/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			

Matrix Spike (2349001-MS1)					Source: E311219-05		Prepared: 12/04/23 Analyzed: 12/04/23		
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.5	38-132			
Surrogate: n-Nonane	41.7		50.0		83.3	50-200			

Matrix Spike Dup (2349001-MSD1)					Source: E311219-05		Prepared: 12/04/23 Analyzed: 12/04/23		
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.9	38-132	1.80	20	
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/5/2023 4:16:32PM
---	--	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349009-BLK1)					Prepared: 12/04/23 Analyzed: 12/04/23				
Chloride	ND	20.0							
LCS (2349009-BS1)					Prepared: 12/04/23 Analyzed: 12/04/23				
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2349009-MS1)					Source: E311218-02		Prepared: 12/04/23 Analyzed: 12/04/23		
Chloride	715	200	250	445	108	80-120			
Matrix Spike Dup (2349009-MSD1)					Source: E311218-02		Prepared: 12/04/23 Analyzed: 12/04/23		
Chloride	656	200	250	445	84.6	80-120	8.56	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/05/23 16:16

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

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

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



Client: Matador Production Company.					Bill To		Lab Use Only						TAT				EPA Program					
Project: Rustler Breaks 2 Booster					Attention: Matador Production Company		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo					Address: on file		E311219		23052-0001							x						
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method											RCRA				
City, State, Zip: Carlsbad NM, 88220					Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	TX	GDOC	State						
Phone: 575-988-0055					Email: clinton.talley@matadorresources.com											NM	CO	UT	AZ	TX		
Email: agiovengo@ensolum.com					Report due by:													Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
11:08	11/27/2023	Soil	1 Jar	FS04 - 3'	1									X								
11:12	11/27/2023	Soil	1 Jar	FS06 - 3'	2									X								
11:09	11/27/2023	Soil	1 Jar	FS09 - 3'	3									X								
12:30	11/27/2023	Soil	1 Jar	FS12 - 3'	4									X								
12:32	11/27/2023	Soil	1 Jar	FS13 - 3'	5									X								
13:42	11/27/2023	Soil	1 Jar	FS21 - 2'	6									X								
13:37	11/27/2023	Soil	1 Jar	FS23 - 4'	7									X								
13:47	11/27/2023	Soil	1 Jar	FS24 - 2'	8									X								
13:49	11/27/2023	Soil	1 Jar	FS25 - 1'	9									X								
13:55	11/27/2023	Soil	1 Jar	FS26 - 4'	10									X								
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
Sampled by:											Lab Use Only											
Relinquished by: (Signature)			Date		Time		Received by: (Signature)			Date		Time		Received on ice: (Y) N								
Zuli Pina			11-28-23		7:21		Michelle Gough			11-28-23		1145										
Relinquished by: (Signature)			Date		Time		Received by: (Signature)			Date		Time		T1 T2 T3								
Michelle Gough			11-28-23		1700		Andrew Mc880			11-28-23		1730										
Relinquished by: (Signature)			Date		Time		Received by: (Signature)			Date		Time		AVG Temp °C								
Andrew Mc880			11-28-23		2345		Andrew Mc880			11-29-23		830		4								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA											
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



Client: Matador Production Company.				Bill To		Lab Use Only				TAT			EPA Program						
Project: Rustler Breaks 2 Booster				Attention: Matador Production Company		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo				Address: on file		E311219		23052-0001					x						
Address: 3122 National Parks Hwy				City, State, Zip:		Analysis and Method										RCRA			
City, State, Zip: Carlsbad NM, 88220				Phone: (337)319-8398											State				
Phone: 575-988-0055				Email: clinton.talley@matadorresources.com											NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com															x				
Report due by:															Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX				
11:56	11/27/2023	Soil	1 Jar	SW03 - 0-3'	1								x						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehafat@ensolum.com																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
[Signature]		11-28-23	7:21	[Signature]		11-28-23	1145	Received on ice: [Y] N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
[Signature]		11-28-23	1700	[Signature]		11-28-23	1730	T1 T2 T3											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C											
[Signature]		11-28-23	2345	[Signature]		11-29-23	8:30	4											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



envirotech

Envirotech Analytical Laboratory

Printed: 11/29/2023 1:33:51PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	11/28/23 08:30	Work Order ID:	E311219
Phone:	(972) 371-5200	Date Logged In:	11/28/23 16:13	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/05/23 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Rustler Breaks 2 Booster

Work Order: E311234

Job Number: 23052-0001

Received: 11/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/6/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 12/6/23

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



Project Name: Rustler Breaks 2 Booster
Workorder: E311234
Date Received: 11/30/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/30/2023 7:30:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/06/23 08:52
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS22-4'	E311234-01A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
FS27-4'	E311234-02A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
FS28-4'	E311234-03A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
FS29- 3.5'	E311234-04A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
FS30- 3.5'	E311234-05A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
FS31- 4'	E311234-06A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
FS39- 4'	E311234-07A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
FS40- 4'	E311234-08A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SW04- 0- 4'	E311234-09A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/6/2023 8:52:51AM
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FS22-4'

E311234-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
Surrogate: 4-Bromochlorobenzene-PID	92.4 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.2 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2349001	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/05/23	
Surrogate: n-Nonane	87.5 %	50-200		12/04/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349021	
Chloride	221	200	10	12/04/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/6/2023 8:52:51AM

FS27-4'

E311234-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>91.8 %</i>	<i>70-130</i>		<i>11/30/23</i>	<i>12/02/23</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>96.8 %</i>	<i>70-130</i>		<i>11/30/23</i>	<i>12/02/23</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2349001	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/05/23	
<i>Surrogate: n-Nonane</i>	<i>84.9 %</i>	<i>50-200</i>		<i>12/04/23</i>	<i>12/05/23</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349021	
Chloride	873	200	10	12/04/23	12/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/6/2023 8:52:51AM
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FS28-4'

E311234-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	91.9 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	97.5 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2349001	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/05/23	
<i>Surrogate: n-Nonane</i>	81.9 %	50-200		12/04/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349021	
Chloride	756	200	10	12/04/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/6/2023 8:52:51AM

FS29- 3.5'

E311234-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.0 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	98.1 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2349001	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/05/23	
<i>Surrogate: n-Nonane</i>	83.4 %	50-200		12/04/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349021	
Chloride	ND	200	10	12/04/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/6/2023 8:52:51AM

FS30- 3.5'

E311234-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348091
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.2 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348091
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.9 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/05/23	
<i>Surrogate: n-Nonane</i>						
	84.7 %	50-200		12/04/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349021
Chloride	ND	200	10	12/04/23	12/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/6/2023 8:52:51AM
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FS31- 4'

E311234-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
Surrogate: 4-Bromochlorobenzene-PID	91.9 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.6 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2349001	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/05/23	
Surrogate: n-Nonane	85.8 %	50-200		12/04/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349021	
Chloride	ND	200	10	12/04/23	12/04/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/6/2023 8:52:51AM
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FS39- 4'

E311234-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.2 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	97.8 %	70-130		11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2349001	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/05/23	
<i>Surrogate: n-Nonane</i>	80.2 %	50-200		12/04/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349021	
Chloride	296	200	10	12/04/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/6/2023 8:52:51AM

FS40- 4'

E311234-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348091
Benzene	ND	0.0250	1	11/30/23	12/01/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/01/23	
Toluene	ND	0.0250	1	11/30/23	12/01/23	
o-Xylene	ND	0.0250	1	11/30/23	12/01/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/01/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/01/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		11/30/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348091
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/01/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.6 %	70-130		11/30/23	12/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2349001
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/05/23	
<i>Surrogate: n-Nonane</i>						
	84.0 %	50-200		12/04/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349021
Chloride	363	200	10	12/04/23	12/04/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/6/2023 8:52:51AM

SW04- 0- 4'

E311234-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.4 %	70-130	11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2348091	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.1 %	70-130	11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2349001	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/04/23	12/05/23	
<i>Surrogate: n-Nonane</i>		85.3 %	50-200	12/04/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2349021	
Chloride	220	200	10	12/04/23	12/04/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/6/2023 8:52:51AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2348091-BLK1) Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

LCS (2348091-BS1) Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	5.12	0.0250	5.00		102	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
o-Xylene	5.14	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.8	70-130			

Matrix Spike (2348091-MS1) Source: E311234-08 Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	5.17	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.14	0.0250	5.00	ND	103	61-130			
o-Xylene	5.07	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike Dup (2348091-MSD1) Source: E311234-08 Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	5.00	0.0250	5.00	ND	100	54-133	3.34	20	
Ethylbenzene	4.94	0.0250	5.00	ND	98.8	61-133	2.46	20	
Toluene	4.97	0.0250	5.00	ND	99.5	61-130	3.19	20	
o-Xylene	4.93	0.0250	5.00	ND	98.7	63-131	2.67	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	2.79	20	
Total Xylenes	15.0	0.0250	15.0	ND	99.8	63-131	2.75	20	
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/6/2023 8:52:51AM

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 (2348091-BLK1) Prepared: 11/30/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS (2348091-BS2) Prepared: 11/30/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		79.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike (2348091-MS2) Source: E311234-08 Prepared: 11/30/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.3	70-130			

Matrix Spike Dup (2348091-MSD2) Source: E311234-08 Prepared: 11/30/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.7	70-130	2.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/6/2023 8:52:51AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349001-BLK1)					Prepared: 12/04/23 Analyzed: 12/04/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.7		50.0		85.5	50-200			

LCS (2349001-BS1)					Prepared: 12/04/23 Analyzed: 12/04/23				
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	45.8		50.0		91.6	50-200			

Matrix Spike (2349001-MS1)					Source: E311219-05		Prepared: 12/04/23 Analyzed: 12/04/23		
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.5	38-132			
Surrogate: n-Nonane	41.7		50.0		83.3	50-200			

Matrix Spike Dup (2349001-MSD1)					Source: E311219-05		Prepared: 12/04/23 Analyzed: 12/04/23		
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.9	38-132	1.80	20	
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/6/2023 8:52:51AM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349021-BLK1)					Prepared: 12/04/23 Analyzed: 12/04/23				
Chloride	ND	20.0							
LCS (2349021-BS1)					Prepared: 12/04/23 Analyzed: 12/04/23				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2349021-MS1)					Source: E311232-04		Prepared: 12/04/23 Analyzed: 12/04/23		
Chloride	376	20.0	250	111	106	80-120			
Matrix Spike Dup (2349021-MSD1)					Source: E311232-04		Prepared: 12/04/23 Analyzed: 12/04/23		
Chloride	369	20.0	250	111	103	80-120	1.84	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/06/23 08:52

- 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.

E311234

Client: Matador Production Company.				Bill To		Lab Use Only				TAT				EPA Program			
Project: Rustler Breaks 2 Booster				Attention: Matador Production Company		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo				Address: on file		E 23052		23052-0001					x				
Address: 3122 National Parks Hwy				City, State, Zip:		Analysis and Method									RCRA		
City, State, Zip: Carlsbad NM, 88220				Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: 575-988-0055				Email: clinton.talley@matadorresources.com									NM	CO	UT	AZ	TX
mail: agiovengo@ensolum.com																	
Report due by:																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												
12:51	11/28/2023	Soil	1 Jar	FS22 - 4'	1								X				
10:58	11/28/2023	Soil	1 Jar	FS27 - 4'	2								X				
11:04	11/28/2023	Soil	1 Jar	FS28 - 4'	3								X				
11:08	11/28/2023	Soil	1 Jar	FS29 - 3.5'	4								X				
11:10	11/28/2023	Soil	1 Jar	FS30 - 3.5'	5								X				
12:56	11/28/2023	Soil	1 Jar	FS31 - 4'	6								X				
14:27	11/28/2023	Soil	1 Jar	FS39 - 4'	7								X				
13:00	11/28/2023	Soil	1 Jar	FS40 - 4'	8								X				
14:35	11/28/2023	Soil	1 Jar	SW04 - 0-4'	9								X				

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

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

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
<i>Colin Burton</i>	11-29-23	7:05	<i>Michelle Gough</i>	11-29-23	1136	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gough</i>	11-29-23	1645	<i>Andrew Musso</i>	11-29-23	1700	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Andrew Musso</i>	11-29-23	2300	<i>G. Montano</i>	11/30/23	7:30	

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

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

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



envirotech

Envirotech Analytical Laboratory

Printed: 11/30/2023 9:21:22AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	11/30/23 07:30	Work Order ID:	E311234
Phone:	(972) 371-5200	Date Logged In:	11/30/23 09:08	Logged In By:	Jordan Montano
Email:	agiovngo@ensolum.com	Due Date:	12/06/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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: Rustler Breaks 2 Booster

Work Order: E311238

Job Number: 23052-0001

Received: 12/1/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/8/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
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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: 12/8/23

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



Project Name: Rustler Breaks 2 Booster
Workorder: E311238
Date Received: 12/1/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/1/2023 7:30:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported: 12/08/23 15:23
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S01-5'	E311238-01A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
S01-6'	E311238-02A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/8/2023 3:23:27PM
---	--	----------------------------------

S01-5'

E311238-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2349037
Chloride	845	200	10	12/05/23	12/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/8/2023 3:23:27PM
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S01-6'

E311238-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2349037
Chloride	2480	200	10	12/05/23	12/06/23	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/8/2023 3:23:27PM
---	--	--------------------------------------

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349037-BLK1)					Prepared: 12/05/23 Analyzed: 12/06/23				
Chloride	ND	20.0							
LCS (2349037-BS1)					Prepared: 12/05/23 Analyzed: 12/06/23				
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2349037-MS1)					Source: E311242-01		Prepared: 12/05/23 Analyzed: 12/06/23		
Chloride	655	200	250	393	105	80-120			
Matrix Spike Dup (2349037-MSD1)					Source: E311242-01		Prepared: 12/05/23 Analyzed: 12/06/23		
Chloride	669	200	250	393	110	80-120	2.18	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/08/23 15:23

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

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

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



Client: Matador Production Company.				Bill To				Lab Use Only				TAT				EPA Program						
Project: Rustler Breaks 2 Booster				Attention: Matador Production Company				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Ashley Giovengo				Address: on file				E 311238		23052-0001					x							
Address: 3122 National Parks Hwy				City, State, Zip:				Analysis and Method											RCRA			
City, State, Zip: Carlsbad NM, 88220				Phone: (337)319-8398				TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX	State				
Phone: 575-988-0055				Email: clinton.talley@matadorresources.com														NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com																		x				
Report due by:																		Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
13:42	11/29/2023	Soil	1 Jar	S01 - 5'	1														J Flag (See Walter)			
14:11	11/29/2023	Soil	1 Jar	S01 - 6'	2														J Flag (See Walter)			
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time	Lab Use Only										
[Signature]				11-30-23	7:11	[Signature]				11-30-23	1030	Received on ice: Y / N										
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time	T1 T2 T3										
[Signature]				11-30-23	1930	[Signature]				11-30-23	1800											
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time	AVG Temp °C										
[Signature]				11-30-23	2400	[Signature]				12/1/23	7:30	4										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						

Envirotech Analytical Laboratory

Printed: 12/1/2023 8:42:19AM

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:	12/01/23 07:30	Work Order ID:	E311238
Phone:	(972) 371-5200	Date Logged In:	11/30/23 14:14	Logged In By:	Jordan Montano
Email:	agiovngo@ensolum.com	Due Date:	12/07/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? No
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Sample names do not match COC.
S01-5 is S1-5 and S01-6 is S1-6.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Rustler Breaks 2 Booster

Work Order: E311242

Job Number: 23052-0001

Received: 12/1/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/8/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
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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: 12/8/23

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



Project Name: Rustler Breaks 2 Booster
Workorder: E311242
Date Received: 12/1/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/1/2023 7:30:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster 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.

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

Respectfully,

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Sample Summary

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/08/23 13:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-4'	E311242-01A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
FS08-3'	E311242-02A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
FS10-3.5'	E311242-03A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
FS11-4'	E311242-04A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
FS32-4'	E311242-05A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
FS33-4'	E311242-06A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
FS34-4'	E311242-07A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
FS35-4'	E311242-08A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
FS36-4'	E311242-09A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
FS37-4'	E311242-10A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
FS38-4'	E311242-11A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW01- 0-4'	E311242-12A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW02- 0-3'	E311242-13A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW05- 0-4'	E311242-14A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.
SW06- 0-4'	E311242-15A	Soil	11/29/23	12/01/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/8/2023 1:29:33PM

FS01-4'

E311242-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/07/23	
Toluene	ND	0.0250	1	12/01/23	12/07/23	
o-Xylene	ND	0.0250	1	12/01/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/07/23	
Surrogate: Bromofluorobenzene		112 %	70-130	12/01/23	12/07/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	12/01/23	12/07/23	
Surrogate: Toluene-d8		93.5 %	70-130	12/01/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/07/23	
Surrogate: Bromofluorobenzene		112 %	70-130	12/01/23	12/07/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	12/01/23	12/07/23	
Surrogate: Toluene-d8		93.5 %	70-130	12/01/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
Surrogate: n-Nonane		100 %	50-200	12/06/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	393	200	10	12/05/23	12/06/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/8/2023 1:29:33PM

FS08-3'

E311242-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	95.5 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	95.5 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
Surrogate: n-Nonane	97.6 %	50-200		12/06/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	486	200	10	12/05/23	12/06/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/8/2023 1:29:33PM

FS10-3.5'

E311242-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene		101 %	70-130	12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	12/01/23	12/05/23	
Surrogate: Toluene-d8		96.7 %	70-130	12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene		101 %	70-130	12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	12/01/23	12/05/23	
Surrogate: Toluene-d8		96.7 %	70-130	12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
Surrogate: n-Nonane		94.3 %	50-200	12/06/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	449	200	10	12/05/23	12/06/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/8/2023 1:29:33PM

FS11-4'

E311242-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	96.4 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	96.4 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
Surrogate: n-Nonane	102 %	50-200		12/06/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	1060	200	10	12/05/23	12/06/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/8/2023 1:29:33PM

FS32-4'

E311242-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.4 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	96.4 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.4 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	96.4 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
Surrogate: n-Nonane	95.2 %	50-200		12/06/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	280	200	10	12/05/23	12/06/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/8/2023 1:29:33PM

FS33-4'

E311242-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	94.9 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	94.9 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
Surrogate: n-Nonane	102 %	50-200		12/06/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	418	200	10	12/05/23	12/06/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/8/2023 1:29:33PM

FS34-4'

E311242-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/07/23	
Toluene	ND	0.0250	1	12/01/23	12/07/23	
o-Xylene	ND	0.0250	1	12/01/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/07/23	
Surrogate: Bromofluorobenzene	93.7 %	70-130		12/01/23	12/07/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		12/01/23	12/07/23	
Surrogate: Toluene-d8	96.0 %	70-130		12/01/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/07/23	
Surrogate: Bromofluorobenzene	93.7 %	70-130		12/01/23	12/07/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		12/01/23	12/07/23	
Surrogate: Toluene-d8	96.0 %	70-130		12/01/23	12/07/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
Surrogate: n-Nonane	99.2 %	50-200		12/06/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	ND	200	10	12/05/23	12/06/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/8/2023 1:29:33PM

FS35-4'

E311242-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	94.8 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.0 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	94.8 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
Surrogate: n-Nonane	98.9 %	50-200		12/06/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	775	200	10	12/05/23	12/06/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/8/2023 1:29:33PM

FS36-4'

E311242-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	95.1 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.3 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	95.1 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
Surrogate: n-Nonane	84.0 %	50-200		12/06/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	680	200	10	12/05/23	12/06/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/8/2023 1:29:33PM

FS37-4'

E311242-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.1 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	96.1 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.1 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	96.1 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/06/23	
Surrogate: n-Nonane	74.0 %	50-200		12/06/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	690	200	10	12/05/23	12/06/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/8/2023 1:29:33PM

FS38-4'

E311242-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	95.9 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	95.9 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
Surrogate: n-Nonane	60.3 %	50-200		12/06/23	12/07/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	3030	200	10	12/05/23	12/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/8/2023 1:29:33PM
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SW01- 0-4'
E311242-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.4 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	95.1 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.4 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	95.1 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
Surrogate: n-Nonane	83.1 %	50-200		12/06/23	12/07/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	245	200	10	12/05/23	12/06/23	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
12/8/2023 1:29:33PM

SW02- 0-3'

E311242-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.1 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	95.4 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.1 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	95.4 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
Surrogate: n-Nonane	91.6 %	50-200		12/06/23	12/07/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	494	200	10	12/05/23	12/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/8/2023 1:29:33PM
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SW05- 0-4'
E311242-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	97.4 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	94.8 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	97.4 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	94.8 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
Surrogate: n-Nonane	98.1 %	50-200		12/06/23	12/07/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	299	200	10	12/05/23	12/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/8/2023 1:29:33PM
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SW06- 0-4'
E311242-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Benzene	ND	0.0250	1	12/01/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/01/23	12/05/23	
Toluene	ND	0.0250	1	12/01/23	12/05/23	
o-Xylene	ND	0.0250	1	12/01/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/01/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	93.9 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2348097
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/01/23	12/05/23	
Surrogate: Bromofluorobenzene	99.7 %	70-130		12/01/23	12/05/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		12/01/23	12/05/23	
Surrogate: Toluene-d8	93.9 %	70-130		12/01/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349060
Diesel Range Organics (C10-C28)	ND	25.0	1	12/06/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/06/23	12/07/23	
Surrogate: n-Nonane	92.0 %	50-200		12/06/23	12/07/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349037
Chloride	213	200	10	12/05/23	12/06/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/8/2023 1:29:33PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2348097-BLK1) Prepared: 12/01/23 Analyzed: 12/07/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS (2348097-BS1) Prepared: 12/01/23 Analyzed: 12/05/23

Benzene	2.30	0.0250	2.50		92.2	70-130			
Ethylbenzene	2.25	0.0250	2.50		90.0	70-130			
Toluene	2.21	0.0250	2.50		88.2	70-130			
o-Xylene	2.26	0.0250	2.50		90.4	70-130			
p,m-Xylene	4.38	0.0500	5.00		87.5	70-130			
Total Xylenes	6.64	0.0250	7.50		88.5	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.474		0.500		94.7	70-130			

Matrix Spike (2348097-MS1) Source: E311242-07 Prepared: 12/01/23 Analyzed: 12/05/23

Benzene	2.37	0.0250	2.50	ND	94.9	48-131			
Ethylbenzene	2.31	0.0250	2.50	ND	92.3	45-135			
Toluene	2.29	0.0250	2.50	ND	91.4	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.6	43-135			
p,m-Xylene	4.56	0.0500	5.00	ND	91.3	43-135			
Total Xylenes	6.93	0.0250	7.50	ND	92.4	43-135			
Surrogate: Bromofluorobenzene	0.500		0.500		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.474		0.500		94.7	70-130			

Matrix Spike Dup (2348097-MSD1) Source: E311242-07 Prepared: 12/01/23 Analyzed: 12/05/23

Benzene	2.37	0.0250	2.50	ND	94.7	48-131	0.190	23	
Ethylbenzene	2.34	0.0250	2.50	ND	93.7	45-135	1.51	27	
Toluene	2.31	0.0250	2.50	ND	92.3	48-130	0.958	24	
o-Xylene	2.41	0.0250	2.50	ND	96.2	43-135	1.74	27	
p,m-Xylene	4.65	0.0500	5.00	ND	93.0	43-135	1.90	27	
Total Xylenes	7.06	0.0250	7.50	ND	94.1	43-135	1.84	27	
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.474		0.500		94.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/8/2023 1:29:33PM

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 (2348097-BLK1)

Prepared: 12/01/23 Analyzed: 12/07/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

LCS (2348097-BS2)

Prepared: 12/01/23 Analyzed: 12/07/23

Gasoline Range Organics (C6-C10)	44.1	20.0	50.0		88.2	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.521		0.500		104	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike (2348097-MS2)

Source: E311242-07

Prepared: 12/01/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	37.7	20.0	50.0	ND	75.4	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.480		0.500		95.9	70-130			

Matrix Spike Dup (2348097-MSD2)

Source: E311242-07

Prepared: 12/01/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130	3.93	20	
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.2	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/8/2023 1:29:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349060-BLK1)					Prepared: 12/06/23 Analyzed: 12/06/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.8		50.0		104	50-200			

LCS (2349060-BS1)					Prepared: 12/06/23 Analyzed: 12/06/23				
Diesel Range Organics (C10-C28)	266	25.0	250		106	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			

Matrix Spike (2349060-MS1)					Source: E311242-06		Prepared: 12/06/23 Analyzed: 12/06/23		
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	52.8		50.0		106	50-200			

Matrix Spike Dup (2349060-MSD1)					Source: E311242-06		Prepared: 12/06/23 Analyzed: 12/06/23		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	5.12	20	
Surrogate: n-Nonane	53.4		50.0		107	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 12/8/2023 1:29:33PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349037-BLK1)					Prepared: 12/05/23 Analyzed: 12/06/23				
Chloride	ND	20.0							
LCS (2349037-BS1)					Prepared: 12/05/23 Analyzed: 12/06/23				
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2349037-MS1)					Source: E311242-01		Prepared: 12/05/23 Analyzed: 12/06/23		
Chloride	655	200	250	393	105	80-120			
Matrix Spike Dup (2349037-MSD1)					Source: E311242-01		Prepared: 12/05/23 Analyzed: 12/06/23		
Chloride	669	200	250	393	110	80-120	2.18	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/08/23 13:29

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

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

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



Client: Matador Production Company.		Bill To		Lab Use Only		TAT		EPA Program			
Project: Rustler Breaks 2 Booster		Attention: Matador Production Company		Lab WO#		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		E 311242		Job Number		23052-0001		x	
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method						RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: (337)319-8398									
Phone: 575-988-0055		Email: clinton.talley@matadorresources.com									
Email: agiovengo@ensolum.com											
Report due by:											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	TX	State	Remarks
15:45	11/29/2023	Soil	1 Jar	FS01 - 4'	1						X			
10:17	11/29/2023	Soil	1 Jar	FS08 - 3'	2						X			
9:28	11/29/2023	Soil	1 Jar	FS10 - 3.5	3						X			
10:31	11/29/2023	Soil	1 Jar	FS11 - 4'	4						X			
11:31	11/29/2023	Soil	1 Jar	FS32 - 4'	5						X			
14:12	11/29/2023	Soil	1 Jar	FS33 - 4'	6						X			
14:00	11/29/2023	Soil	1 Jar	FS34 - 4'	7						X			
13:30	11/29/2023	Soil	1 Jar	FS35 - 4'	8						X			
14:01	11/29/2023	Soil	1 Jar	FS36 - 4'	9						X			
12:25	11/29/2023	Soil	1 Jar	FS37 - 4'	10						X			

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

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

Sampled by:

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

Relinquished by: (Signature) <i>Lee Bern</i>	Date 11-30-23	Time 7:11	Received by: (Signature) <i>Charles Parker</i>	Date 11-30-23	Time 1030	Lab Use Only
Relinquished by: (Signature) <i>Charles Parker</i>	Date 11-30-23	Time 3 1730	Received by: (Signature) <i>Andrew Hesse</i>	Date 11-30-23	Time 1800	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Relinquished by: (Signature) <i>Andrew Hesse</i>	Date 11-30-23	Time 2600	Received by: (Signature) <i>Montro</i>	Date 12/1/23	Time 7:30	T1 _____ T2 _____ T3 _____
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						AVG Temp °C <u>4</u>
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						

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



envirotech

Client: Matador Production Company.					Bill To Attention: Matador Production Company Address: on file City, State, Zip: Phone: (337)319-8398 Email: clinton.talley@matadorresources.com		Lab Use Only						TAT				EPA Program					
Project: Rustler Breaks 2 Booster							Lab WO#	Job Number					1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo							E 311242					23052-0001								x		
Address: 3122 National Parks Hwy							Analysis and Method												RCRA			
City, State, Zip: Carlsbad NM, 88220																						
Phone: 575-988-0055					TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				BGDOC NM		GDOC TX	State						
Email: agiovengo@ensolum.com																NM	CO	UT	AZ	TX		
Report due by:																						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks					
11:56	11/29/2023	Soil	1 Jar	FS38 - 4'	11									X								
10:45	11/29/2023	Soil	1 Jar	SW01 - 0-4'	12									X								
11:47	11/29/2023	Soil	1 Jar	SW02 - 0-3'	13									X								
11:07	11/29/2023	Soil	1 Jar	SW05 - 0-4'	14									X								
14:24	11/29/2023	Soil	1 Jar	SW06 - 0-4'	15									X								
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaf@ensolum.com																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only										
[Signature]		11-30-23		7:11		[Signature]		11-30-23		1030		Received on ice: <input checked="" type="checkbox"/> N										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3										
[Signature]		11-30-23		1930		[Signature]		11-30-23		1800												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C										
[Signature]		11-30-23		1600		[Signature]		12/1/23		7:30		4										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



envirotech

Envirotech Analytical Laboratory

Printed: 12/1/2023 9:31:48AM

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:	12/01/23 07:30	Work Order ID:	E311242
Phone:	(972) 371-5200	Date Logged In:	11/30/23 14:17	Logged In By:	Jordan Montano
Email:	agiovngo@ensolum.com	Due Date:	12/07/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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: Rustler Breaks 2 Booster

Work Order: E408045

Job Number: 23003-0002

Received: 8/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/12/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/12/24

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



Project Name: Rustler Breaks 2 Booster
Workorder: E408045
Date Received: 8/7/2024 5:45:29AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/7/2024 5:45:29AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster 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.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/12/24 09:37

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03-5.5'	E408045-01A	Solid	08/05/24	08/07/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/12/2024 9:37:22AM

BH03-5.5'

E408045-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432049
Benzene	ND	0.0250	1	08/07/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/07/24	
Toluene	ND	0.0250	1	08/07/24	08/07/24	
o-Xylene	ND	0.0250	1	08/07/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/07/24	
<i>Surrogate: Bromofluorobenzene</i>		114 %	70-130	08/07/24	08/07/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.0 %	70-130	08/07/24	08/07/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432049
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/07/24	
<i>Surrogate: Bromofluorobenzene</i>		114 %	70-130	08/07/24	08/07/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.0 %	70-130	08/07/24	08/07/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432044
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/07/24	
<i>Surrogate: n-Nonane</i>		86.6 %	50-200	08/07/24	08/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432048
Chloride	ND	200	10	08/07/24	08/07/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/12/2024 9:37:22AM

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 (2432049-BLK1) Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.588		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

LCS (2432049-BS1) Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	2.25	0.0250	2.50		89.9	70-130			
Ethylbenzene	2.40	0.0250	2.50		96.0	70-130			
Toluene	2.45	0.0250	2.50		98.1	70-130			
o-Xylene	2.63	0.0250	2.50		105	70-130			
p,m-Xylene	5.21	0.0500	5.00		104	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.582		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.452		0.500		90.4	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

Matrix Spike (2432049-MS1) Source: E408044-08 Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	2.33	0.0250	2.50	ND	93.2	48-131			
Ethylbenzene	2.45	0.0250	2.50	ND	98.0	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.30	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.96	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.578		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

Matrix Spike Dup (2432049-MSD1) Source: E408044-08 Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	2.35	0.0250	2.50	ND	94.0	48-131	0.897	23	
Ethylbenzene	2.51	0.0250	2.50	ND	100	45-135	2.40	27	
Toluene	2.56	0.0250	2.50	ND	102	48-130	1.83	24	
o-Xylene	2.75	0.0250	2.50	ND	110	43-135	3.01	27	
p,m-Xylene	5.45	0.0500	5.00	ND	109	43-135	2.80	27	
Total Xylenes	8.20	0.0250	7.50	ND	109	43-135	2.87	27	
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/12/2024 9:37:22AM

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 (2432049-BLK1) Prepared: 08/07/24 Analyzed: 08/07/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.588		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

LCS (2432049-BS2) Prepared: 08/07/24 Analyzed: 08/07/24

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.434		0.500		86.8	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2432049-MS2) Source: E408044-08 Prepared: 08/07/24 Analyzed: 08/07/24

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.7	70-130			
Surrogate: Bromofluorobenzene	0.581		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		91.0	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

Matrix Spike Dup (2432049-MSD2) Source: E408044-08 Prepared: 08/07/24 Analyzed: 08/07/24

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	0.506	20	
Surrogate: Bromofluorobenzene	0.586		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		90.9	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/12/2024 9:37:22AM

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 (2432044-BLK1) Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

LCS (2432044-BS1) Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
Surrogate: n-Nonane	46.5		50.0		93.0	50-200			

Matrix Spike (2432044-MS1) Source: E408048-01 Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike Dup (2432044-MSD1) Source: E408048-01 Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	38-132	0.902	20	
Surrogate: n-Nonane	49.3		50.0		98.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/12/2024 9:37:22AM
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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 (2432048-BLK1)					Prepared: 08/07/24 Analyzed: 08/07/24				
Chloride	ND	20.0							
LCS (2432048-BS1)					Prepared: 08/07/24 Analyzed: 08/07/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2432048-MS1)					Source: E408048-03		Prepared: 08/07/24 Analyzed: 08/07/24		
Chloride	754	200	250	343	165	80-120			M1
Matrix Spike Dup (2432048-MSD1)					Source: E408048-03		Prepared: 08/07/24 Analyzed: 08/07/24		
Chloride	636	200	250	343	117	80-120	17.0	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/12/24 09:37

- M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- 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: 8/7/2024 8:19:29AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	08/07/24 05:45	Work Order ID:	E408045
Phone:	(972) 371-5200	Date Logged In:	08/06/24 16:11	Logged In By:	Raina Schwanz
Email:	agiovngo@ensolum.com	Due Date:	08/07/24 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/Resolution

Client requested Chloride rushed.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Rustler Breaks 2 Booster

Work Order: E408046

Job Number: 23003-0002

Received: 8/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/12/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/12/24

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



Project Name: Rustler Breaks 2 Booster
Workorder: E408046
Date Received: 8/7/2024 5:45:29AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/7/2024 5:45:29AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster 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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Chain of Custody etc.	11

Sample Summary

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported: 08/12/24 09:39
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03-4.5'	E408046-01A	Solid	08/05/24	08/07/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/12/2024 9:39:04AM
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BH03-4.5'

E408046-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2432049	
Benzene	ND	0.0250	1	08/07/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/07/24	
Toluene	ND	0.0250	1	08/07/24	08/07/24	
o-Xylene	ND	0.0250	1	08/07/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/07/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/07/24	08/07/24	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	08/07/24	08/07/24	
Surrogate: Toluene-d8		109 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2432049	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/07/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/07/24	08/07/24	
Surrogate: 1,2-Dichloroethane-d4		89.4 %	70-130	08/07/24	08/07/24	
Surrogate: Toluene-d8		109 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2432044	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/07/24	
Surrogate: n-Nonane		93.8 %	50-200	08/07/24	08/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2432048	
Chloride	ND	200	10	08/07/24	08/07/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/12/2024 9:39:04AM

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 (2432049-BLK1) Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.588		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

LCS (2432049-BS1) Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	2.25	0.0250	2.50		89.9	70-130			
Ethylbenzene	2.40	0.0250	2.50		96.0	70-130			
Toluene	2.45	0.0250	2.50		98.1	70-130			
o-Xylene	2.63	0.0250	2.50		105	70-130			
p,m-Xylene	5.21	0.0500	5.00		104	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.582		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.452		0.500		90.4	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

Matrix Spike (2432049-MS1) Source: E408044-08 Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	2.33	0.0250	2.50	ND	93.2	48-131			
Ethylbenzene	2.45	0.0250	2.50	ND	98.0	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.30	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.96	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.578		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

Matrix Spike Dup (2432049-MSD1) Source: E408044-08 Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	2.35	0.0250	2.50	ND	94.0	48-131	0.897	23	
Ethylbenzene	2.51	0.0250	2.50	ND	100	45-135	2.40	27	
Toluene	2.56	0.0250	2.50	ND	102	48-130	1.83	24	
o-Xylene	2.75	0.0250	2.50	ND	110	43-135	3.01	27	
p,m-Xylene	5.45	0.0500	5.00	ND	109	43-135	2.80	27	
Total Xylenes	8.20	0.0250	7.50	ND	109	43-135	2.87	27	
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/12/2024 9:39:04AM

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 (2432049-BLK1) Prepared: 08/07/24 Analyzed: 08/07/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.588		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

LCS (2432049-BS2) Prepared: 08/07/24 Analyzed: 08/07/24

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.434		0.500		86.8	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2432049-MS2) Source: E408044-08 Prepared: 08/07/24 Analyzed: 08/07/24

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.7	70-130			
Surrogate: Bromofluorobenzene	0.581		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		91.0	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

Matrix Spike Dup (2432049-MSD2) Source: E408044-08 Prepared: 08/07/24 Analyzed: 08/07/24

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	0.506	20	
Surrogate: Bromofluorobenzene	0.586		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		90.9	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/12/2024 9:39:04AM

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 (2432044-BLK1) Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

LCS (2432044-BS1) Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
Surrogate: n-Nonane	46.5		50.0		93.0	50-200			

Matrix Spike (2432044-MS1) Source: E408048-01 Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike Dup (2432044-MSD1) Source: E408048-01 Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	38-132	0.902	20	
Surrogate: n-Nonane	49.3		50.0		98.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/12/2024 9:39:04AM
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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 (2432048-BLK1)					Prepared: 08/07/24 Analyzed: 08/07/24				
Chloride	ND	20.0							
LCS (2432048-BS1)					Prepared: 08/07/24 Analyzed: 08/07/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2432048-MS1)					Source: E408048-03		Prepared: 08/07/24 Analyzed: 08/07/24		
Chloride	754	200	250	343	165	80-120			M1
Matrix Spike Dup (2432048-MSD1)					Source: E408048-03		Prepared: 08/07/24 Analyzed: 08/07/24		
Chloride	636	200	250	343	117	80-120	17.0	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/12/24 09:39

- M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- 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: 8/7/2024 8:21:41AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	08/07/24 05:45	Work Order ID:	E408046
Phone:	(972) 371-5200	Date Logged In:	08/06/24 16:13	Logged In By:	Raina Schwanz
Email:	agiovngo@ensolum.com	Due Date:	08/07/24 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/Resolution

Client requested Chloride rushed.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Rustler Breaks 2 Booster

Work Order: E408048

Job Number: 23003-0002

Received: 8/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/12/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/12/24

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



Project Name: Rustler Breaks 2 Booster
Workorder: E408048
Date Received: 8/7/2024 5:45:29AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/7/2024 5:45:29AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster 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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Cell: 775-287-1762
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/12/24 09:38
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS11 - 4.5'	E408048-01A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS27 - 4.5'	E408048-02A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS28 - 4.5'	E408048-03A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.
FS37 - 4.5'	E408048-04A	Soil	08/05/24	08/07/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/12/2024 9:38:07AM
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FS11 - 4.5'

E408048-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432049
Benzene	ND	0.0250	1	08/07/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/07/24	
Toluene	ND	0.0250	1	08/07/24	08/07/24	
o-Xylene	ND	0.0250	1	08/07/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/07/24	
<i>Surrogate: Bromofluorobenzene</i>		115 %	70-130	08/07/24	08/07/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.2 %	70-130	08/07/24	08/07/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432049
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/07/24	
<i>Surrogate: Bromofluorobenzene</i>		115 %	70-130	08/07/24	08/07/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.2 %	70-130	08/07/24	08/07/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432044
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/07/24	
<i>Surrogate: n-Nonane</i>		96.9 %	50-200	08/07/24	08/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432048
Chloride	170	100	5	08/07/24	08/07/24	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/12/2024 9:38:07AM

FS27 - 4.5'

E408048-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432049
Benzene	ND	0.0250	1	08/07/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/07/24	
Toluene	ND	0.0250	1	08/07/24	08/07/24	
o-Xylene	ND	0.0250	1	08/07/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/07/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/07/24	08/07/24	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130	08/07/24	08/07/24	
Surrogate: Toluene-d8		110 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432049
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/07/24	
Surrogate: Bromofluorobenzene		115 %	70-130	08/07/24	08/07/24	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130	08/07/24	08/07/24	
Surrogate: Toluene-d8		110 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432044
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/07/24	
Surrogate: n-Nonane		88.8 %	50-200	08/07/24	08/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432048
Chloride	352	200	10	08/07/24	08/07/24	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/12/2024 9:38:07AM

FS28 - 4.5'

E408048-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432049
Benzene	ND	0.0250	1	08/07/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/07/24	
Toluene	ND	0.0250	1	08/07/24	08/07/24	
o-Xylene	ND	0.0250	1	08/07/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/07/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/07/24	08/07/24	
Surrogate: 1,2-Dichloroethane-d4		88.4 %	70-130	08/07/24	08/07/24	
Surrogate: Toluene-d8		109 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432049
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/07/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/07/24	08/07/24	
Surrogate: 1,2-Dichloroethane-d4		88.4 %	70-130	08/07/24	08/07/24	
Surrogate: Toluene-d8		109 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432044
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/07/24	
Surrogate: n-Nonane		92.7 %	50-200	08/07/24	08/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432048
Chloride	343	200	10	08/07/24	08/07/24	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/12/2024 9:38:07AM

FS37 - 4.5'

E408048-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432049
Benzene	ND	0.0250	1	08/07/24	08/07/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/07/24	
Toluene	ND	0.0250	1	08/07/24	08/07/24	
o-Xylene	ND	0.0250	1	08/07/24	08/07/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/07/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/07/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/07/24	08/07/24	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130	08/07/24	08/07/24	
Surrogate: Toluene-d8		107 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432049
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/07/24	
Surrogate: Bromofluorobenzene		113 %	70-130	08/07/24	08/07/24	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130	08/07/24	08/07/24	
Surrogate: Toluene-d8		107 %	70-130	08/07/24	08/07/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432044
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/07/24	
Surrogate: n-Nonane		97.3 %	50-200	08/07/24	08/07/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432048
Chloride	ND	200	10	08/07/24	08/07/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/12/2024 9:38:07AM

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 (2432049-BLK1) Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.588		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

LCS (2432049-BS1) Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	2.25	0.0250	2.50		89.9	70-130			
Ethylbenzene	2.40	0.0250	2.50		96.0	70-130			
Toluene	2.45	0.0250	2.50		98.1	70-130			
o-Xylene	2.63	0.0250	2.50		105	70-130			
p,m-Xylene	5.21	0.0500	5.00		104	70-130			
Total Xylenes	7.85	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.582		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.452		0.500		90.4	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			

Matrix Spike (2432049-MS1) Source: E408044-08 Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	2.33	0.0250	2.50	ND	93.2	48-131			
Ethylbenzene	2.45	0.0250	2.50	ND	98.0	45-135			
Toluene	2.52	0.0250	2.50	ND	101	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.30	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.96	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.578		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

Matrix Spike Dup (2432049-MSD1) Source: E408044-08 Prepared: 08/07/24 Analyzed: 08/07/24

Benzene	2.35	0.0250	2.50	ND	94.0	48-131	0.897	23	
Ethylbenzene	2.51	0.0250	2.50	ND	100	45-135	2.40	27	
Toluene	2.56	0.0250	2.50	ND	102	48-130	1.83	24	
o-Xylene	2.75	0.0250	2.50	ND	110	43-135	3.01	27	
p,m-Xylene	5.45	0.0500	5.00	ND	109	43-135	2.80	27	
Total Xylenes	8.20	0.0250	7.50	ND	109	43-135	2.87	27	
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/12/2024 9:38:07AM

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 (2432049-BLK1) Prepared: 08/07/24 Analyzed: 08/07/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.588		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			

LCS (2432049-BS2) Prepared: 08/07/24 Analyzed: 08/07/24

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.434		0.500		86.8	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2432049-MS2) Source: E408044-08 Prepared: 08/07/24 Analyzed: 08/07/24

Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.7	70-130			
Surrogate: Bromofluorobenzene	0.581		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		91.0	70-130			
Surrogate: Toluene-d8	0.545		0.500		109	70-130			

Matrix Spike Dup (2432049-MSD2) Source: E408044-08 Prepared: 08/07/24 Analyzed: 08/07/24

Gasoline Range Organics (C6-C10)	49.6	20.0	50.0	ND	99.2	70-130	0.506	20	
Surrogate: Bromofluorobenzene	0.586		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.455		0.500		90.9	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/12/2024 9:38:07AM

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 (2432044-BLK1) Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

LCS (2432044-BS1) Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	290	25.0	250		116	38-132			
Surrogate: n-Nonane	46.5		50.0		93.0	50-200			

Matrix Spike (2432044-MS1) Source: E408048-01 Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matrix Spike Dup (2432044-MSD1) Source: E408048-01 Prepared: 08/07/24 Analyzed: 08/07/24

Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	38-132	0.902	20	
Surrogate: n-Nonane	49.3		50.0		98.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/12/2024 9:38:07AM
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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 (2432048-BLK1)					Prepared: 08/07/24 Analyzed: 08/07/24				
Chloride	ND	20.0							
LCS (2432048-BS1)					Prepared: 08/07/24 Analyzed: 08/07/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2432048-MS1)					Source: E408048-03		Prepared: 08/07/24 Analyzed: 08/07/24		
Chloride	754	200	250	343	165	80-120			M1
Matrix Spike Dup (2432048-MSD1)					Source: E408048-03		Prepared: 08/07/24 Analyzed: 08/07/24		
Chloride	636	200	250	343	117	80-120	17.0	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/12/24 09:38

- M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- 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

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: 8/7/2024 8:26:55AM

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:	08/07/24 05:45	Work Order ID:	E408048
Phone:	(972) 371-5200	Date Logged In:	08/06/24 16:19	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/07/24 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/Resolution

Client requested to have Chloride rushed only.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Rustler Breaks 2 Booster

Work Order: E408066

Job Number: 23003-0002

Received: 8/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/13/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/13/24

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



Project Name: Rustler Breaks 2 Booster
Workorder: E408066
Date Received: 8/8/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/8/2024 8:30:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/13/24 08:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS35-5'	E408066-01A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS36-6.5'	E408066-02A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
FS38-6'	E408066-03A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.
SW07 - 0-6'	E408066-04A	Soil	08/06/24	08/08/24	Glass Jar, 2 oz.

Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/13/2024 8:42:03AM

FS35-5'

E408066-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2432090	
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
<i>Surrogate: Bromofluorobenzene</i>		95.7 %	70-130	08/08/24	08/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %	70-130	08/08/24	08/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2432090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
<i>Surrogate: Bromofluorobenzene</i>		95.7 %	70-130	08/08/24	08/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.4 %	70-130	08/08/24	08/09/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432073	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
<i>Surrogate: n-Nonane</i>		97.6 %	50-200	08/07/24	08/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2432095	
Chloride	ND	200	10	08/08/24	08/08/24	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
8/13/2024 8:42:03AM

FS36-6.5'

E408066-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	98.4 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	106 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	98.4 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	106 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
Surrogate: n-Nonane	96.1 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432095
Chloride	262	200	10	08/08/24	08/08/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/13/2024 8:42:03AM
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FS38-6'

E408066-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
Surrogate: n-Nonane	98.1 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432095
Chloride	332	200	10	08/08/24	08/08/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/13/2024 8:42:03AM
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SW07 - 0-6'

E408066-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	106 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.1 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	106 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
Surrogate: n-Nonane	107 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432095
Chloride	ND	100	5	08/08/24	08/08/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/13/2024 8:42:03AM

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 (2432090-BLK1) Prepared: 08/08/24 Analyzed: 08/09/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2432090-BS1) Prepared: 08/08/24 Analyzed: 08/09/24

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.66	0.0250	2.50		106	70-130			
Toluene	2.67	0.0250	2.50		107	70-130			
o-Xylene	2.57	0.0250	2.50		103	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.76	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

Matrix Spike (2432090-MS1) Source: E408061-01 Prepared: 08/08/24 Analyzed: 08/09/24

Benzene	2.40	0.0250	2.50	ND	95.9	48-131			
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135			
Toluene	2.54	0.0250	2.50	ND	102	48-130			
o-Xylene	2.37	0.0250	2.50	ND	94.8	43-135			
p,m-Xylene	4.77	0.0500	5.00	ND	95.3	43-135			
Total Xylenes	7.14	0.0250	7.50	ND	95.2	43-135			
Surrogate: Bromofluorobenzene	0.475		0.500		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

Matrix Spike Dup (2432090-MSD1) Source: E408061-01 Prepared: 08/08/24 Analyzed: 08/09/24

Benzene	2.32	0.0250	2.50	ND	93.0	48-131	3.13	23	
Ethylbenzene	2.45	0.0250	2.50	ND	98.1	45-135	4.74	27	
Toluene	2.45	0.0250	2.50	ND	98.1	48-130	3.62	24	
o-Xylene	2.31	0.0250	2.50	ND	92.2	43-135	2.78	27	
p,m-Xylene	4.63	0.0500	5.00	ND	92.6	43-135	2.87	27	
Total Xylenes	6.94	0.0250	7.50	ND	92.5	43-135	2.84	27	
Surrogate: Bromofluorobenzene	0.476		0.500		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/13/2024 8:42:03AM

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 (2432090-BLK1) Prepared: 08/08/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2432090-BS2) Prepared: 08/08/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike (2432090-MS2) Source: E408061-01 Prepared: 08/08/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

Matrix Spike Dup (2432090-MSD2) Source: E408061-01 Prepared: 08/08/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0	ND	101	70-130	3.18	20	
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/13/2024 8:42:03AM

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 (2432073-BLK1)					Prepared: 08/07/24 Analyzed: 08/08/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.4		50.0		111	50-200			

LCS (2432073-BS1)					Prepared: 08/07/24 Analyzed: 08/08/24				
Diesel Range Organics (C10-C28)	249	25.0	250		99.7	38-132			
Surrogate: n-Nonane	56.5		50.0		113	50-200			

Matrix Spike (2432073-MS1)					Source: E408061-07		Prepared: 08/07/24 Analyzed: 08/08/24		
Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.9	38-132			
Surrogate: n-Nonane	55.9		50.0		112	50-200			

Matrix Spike Dup (2432073-MSD1)					Source: E408061-07		Prepared: 08/07/24 Analyzed: 08/08/24		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.7	38-132	0.254	20	
Surrogate: n-Nonane	55.5		50.0		111	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/13/2024 8:42:03AM
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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 (2432095-BLK1)					Prepared: 08/08/24 Analyzed: 08/08/24				
Chloride	ND	20.0							
LCS (2432095-BS1)					Prepared: 08/08/24 Analyzed: 08/08/24				
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2432095-MS1)					Source: E408066-02		Prepared: 08/08/24 Analyzed: 08/08/24		
Chloride	460	200	250	262	79.4	80-120			M2
Matrix Spike Dup (2432095-MSD1)					Source: E408066-02		Prepared: 08/08/24 Analyzed: 08/08/24		
Chloride	494	200	250	262	93.1	80-120	7.17	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/13/24 08:42

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Chain of Custody

Page 1 of 1

Received by OCD: 12/11/2024 12:00:41 AM

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E408066		Job Number 23003-0002		1D 2D 3D Std X X X X				NM CO UT TX X X X X			
Project: Rustler Breaks 2 Booster				Address: 3122 National Parks Hwy		City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055		Email: agiovengo@ensolum.com				Miscellaneous:			
Project Manager: Ashley Giovengo				Address: 3122 National Parks Hwy		City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055		Email: agiovengo@ensolum.com				Miscellaneous:			
Address: 3122 National Parks Hwy				City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055		Email: agiovengo@ensolum.com				Miscellaneous:					
City, State, Zip: Carlsbad NM, 88220				Phone: 575-988-0055		Email: agiovengo@ensolum.com				Miscellaneous:							
Phone: 575-988-0055				Email: agiovengo@ensolum.com		Miscellaneous:											
Email: agiovengo@ensolum.com				Miscellaneous:													
Sample Information																	
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 100S - TX	RCRA 8 Metals	SDWA	CWA	RCRA
11:10	8/6/2024	S	1	FS35 - 5'		1						X					
10:44	8/6/2024	S	1	FS36 - 6.5'		2						X					
8:38	8/6/2024	S	1	FS38 - 6'		3						X					
8:58	8/6/2024	S	1	SW07 - 0-6'		4						X					
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: Cole Burton																	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	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.											
Michelle Gonzales	8-7-24	7:30	Michelle Gonzales	8-7-24	6:30	Lab Use Only Received on ice: (Y) N T1 T2 T3 AVG Temp °C 4											
Michelle Gonzales	8-7-24	1550	Michelle Gonzales	8-7-24	1710												
Michelle Gonzales	8-8-24	0012	Michelle Gonzales	8-8-24	0830												
Michelle Gonzales			Michelle Gonzales														
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: 8/8/2024 12:06:23PM

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:	08/08/24 00:00	Work Order ID:	E408066
Phone:	(972) 371-5200	Date Logged In:	08/07/24 15:26	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	08/08/24 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: Rustler Breaks 2 Booster

Work Order: E409019

Job Number: 23003-0002

Received: 9/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/11/24

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: 9/11/24

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



Project Name: Rustler Breaks 2 Booster
Workorder: E409019
Date Received: 9/5/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/5/2024 5:00:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported: 09/11/24 14:22
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW08 - 0-10'	E409019-01A	Soil	09/03/24	09/05/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
9/11/2024 2:22:18PM

SW08 - 0-10'

E409019-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2436040
Benzene	ND	0.0250	1	09/05/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/05/24	09/06/24	
Toluene	ND	0.0250	1	09/05/24	09/06/24	
o-Xylene	ND	0.0250	1	09/05/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/05/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/05/24	09/06/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	09/05/24	09/06/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	09/05/24	09/06/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/05/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2436040
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/24	09/06/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	09/05/24	09/06/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	09/05/24	09/06/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/05/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2436044
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/11/24	
<i>Surrogate: n-Nonane</i>		99.2 %	50-200	09/05/24	09/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2436049
Chloride	439	20.0	1	09/05/24	09/06/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/11/2024 2:22:18PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2436040-BLK1) Prepared: 09/05/24 Analyzed: 09/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

LCS (2436040-BS1) Prepared: 09/05/24 Analyzed: 09/06/24

Benzene	2.47	0.0250	2.50		98.9	70-130			
Ethylbenzene	2.29	0.0250	2.50		91.5	70-130			
Toluene	2.38	0.0250	2.50		95.0	70-130			
o-Xylene	2.21	0.0250	2.50		88.5	70-130			
p,m-Xylene	4.43	0.0500	5.00		88.6	70-130			
Total Xylenes	6.64	0.0250	7.50		88.6	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Matrix Spike (2436040-MS1) Source: E409006-02 Prepared: 09/05/24 Analyzed: 09/06/24

Benzene	2.58	0.0250	2.50	ND	103	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.3	45-135			
Toluene	2.46	0.0250	2.50	ND	98.5	48-130			
o-Xylene	2.28	0.0250	2.50	ND	91.1	43-135			
p,m-Xylene	4.55	0.0500	5.00	ND	90.9	43-135			
Total Xylenes	6.83	0.0250	7.50	ND	91.0	43-135			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike Dup (2436040-MSD1) Source: E409006-02 Prepared: 09/05/24 Analyzed: 09/06/24

Benzene	2.55	0.0250	2.50	ND	102	48-131	1.30	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.6	45-135	0.800	27	
Toluene	2.43	0.0250	2.50	ND	97.4	48-130	1.18	24	
o-Xylene	2.30	0.0250	2.50	ND	91.8	43-135	0.809	27	
p,m-Xylene	4.59	0.0500	5.00	ND	91.8	43-135	0.952	27	
Total Xylenes	6.89	0.0250	7.50	ND	91.8	43-135	0.904	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/11/2024 2:22:18PM

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 (2436040-BLK1) Prepared: 09/05/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

LCS (2436040-BS2) Prepared: 09/05/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0		96.0	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2436040-MS2) Source: E409006-02 Prepared: 09/05/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0	ND	101	70-130			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

Matrix Spike Dup (2436040-MSD2) Source: E409006-02 Prepared: 09/05/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.7	70-130	2.85	20	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/11/2024 2:22:18PM

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 (2436044-BLK1)					Prepared: 09/05/24 Analyzed: 09/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.1		50.0		92.3	50-200			

LCS (2436044-BS1)					Prepared: 09/05/24 Analyzed: 09/10/24				
Diesel Range Organics (C10-C28)	215	25.0	250		86.0	38-132			
Surrogate: n-Nonane	45.7		50.0		91.4	50-200			

Matrix Spike (2436044-MS1)					Source: E409006-01		Prepared: 09/05/24 Analyzed: 09/10/24		
Diesel Range Organics (C10-C28)	231	25.0	250	34.7	78.4	38-132			
Surrogate: n-Nonane	45.1		50.0		90.2	50-200			

Matrix Spike Dup (2436044-MSD1)					Source: E409006-01		Prepared: 09/05/24 Analyzed: 09/10/24		
Diesel Range Organics (C10-C28)	243	25.0	250	34.7	83.3	38-132	5.19	20	
Surrogate: n-Nonane	46.9		50.0		93.7	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/11/2024 2:22:18PM
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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 (2436049-BLK1)					Prepared: 09/05/24 Analyzed: 09/05/24				
Chloride	ND	20.0							
LCS (2436049-BS1)					Prepared: 09/05/24 Analyzed: 09/05/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2436049-MS1)					Source: E409008-03		Prepared: 09/05/24 Analyzed: 09/05/24		
Chloride	4330	100	250	4010	128	80-120			M4
Matrix Spike Dup (2436049-MSD1)					Source: E409008-03		Prepared: 09/05/24 Analyzed: 09/06/24		
Chloride	4310	100	250	4010	119	80-120	0.542	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/11/24 14:22

- 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.



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Envirotech Analytical Laboratory

Printed: 9/5/2024 7:42:37AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/05/24 05:00	Work Order ID:	E409019
Phone:	(972) 371-5200	Date Logged In:	09/04/24 17:43	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	09/11/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Rustler Breaks 2 Booster

Work Order: E409021

Job Number: 23003-0002

Received: 9/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/11/24

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: 9/11/24

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



Project Name: Rustler Breaks 2 Booster
Workorder: E409021
Date Received: 9/5/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/5/2024 8:00:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported: 09/11/24 14:25
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS17-10'	E409021-01A	Soil	09/03/24	09/05/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/11/2024 2:25:10PM
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FS17-10'

E409021-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2436040	
Benzene	ND	0.0250	1	09/05/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/05/24	09/06/24	
Toluene	ND	0.0250	1	09/05/24	09/06/24	
o-Xylene	ND	0.0250	1	09/05/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/05/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/05/24	09/06/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/05/24	09/06/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	09/05/24	09/06/24	
Surrogate: Toluene-d8		103 %	70-130	09/05/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2436040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/24	09/06/24	
Surrogate: Bromofluorobenzene		103 %	70-130	09/05/24	09/06/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	09/05/24	09/06/24	
Surrogate: Toluene-d8		103 %	70-130	09/05/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2436044	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/11/24	
Surrogate: n-Nonane		93.1 %	50-200	09/05/24	09/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436049	
Chloride	263	200	10	09/05/24	09/06/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/11/2024 2:25:10PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2436040-BLK1) Prepared: 09/05/24 Analyzed: 09/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

LCS (2436040-BS1) Prepared: 09/05/24 Analyzed: 09/06/24

Benzene	2.47	0.0250	2.50		98.9	70-130			
Ethylbenzene	2.29	0.0250	2.50		91.5	70-130			
Toluene	2.38	0.0250	2.50		95.0	70-130			
o-Xylene	2.21	0.0250	2.50		88.5	70-130			
p,m-Xylene	4.43	0.0500	5.00		88.6	70-130			
Total Xylenes	6.64	0.0250	7.50		88.6	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Matrix Spike (2436040-MS1) Source: E409006-02 Prepared: 09/05/24 Analyzed: 09/06/24

Benzene	2.58	0.0250	2.50	ND	103	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.3	45-135			
Toluene	2.46	0.0250	2.50	ND	98.5	48-130			
o-Xylene	2.28	0.0250	2.50	ND	91.1	43-135			
p,m-Xylene	4.55	0.0500	5.00	ND	90.9	43-135			
Total Xylenes	6.83	0.0250	7.50	ND	91.0	43-135			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike Dup (2436040-MSD1) Source: E409006-02 Prepared: 09/05/24 Analyzed: 09/06/24

Benzene	2.55	0.0250	2.50	ND	102	48-131	1.30	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.6	45-135	0.800	27	
Toluene	2.43	0.0250	2.50	ND	97.4	48-130	1.18	24	
o-Xylene	2.30	0.0250	2.50	ND	91.8	43-135	0.809	27	
p,m-Xylene	4.59	0.0500	5.00	ND	91.8	43-135	0.952	27	
Total Xylenes	6.89	0.0250	7.50	ND	91.8	43-135	0.904	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/11/2024 2:25:10PM

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 (2436040-BLK1) Prepared: 09/05/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

LCS (2436040-BS2) Prepared: 09/05/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0		96.0	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2436040-MS2) Source: E409006-02 Prepared: 09/05/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0	ND	101	70-130			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

Matrix Spike Dup (2436040-MSD2) Source: E409006-02 Prepared: 09/05/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.7	70-130	2.85	20	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/11/2024 2:25:10PM

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 (2436044-BLK1)					Prepared: 09/05/24 Analyzed: 09/10/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.1		50.0		92.3	50-200			

LCS (2436044-BS1)					Prepared: 09/05/24 Analyzed: 09/10/24				
Diesel Range Organics (C10-C28)	215	25.0	250		86.0	38-132			
Surrogate: n-Nonane	45.7		50.0		91.4	50-200			

Matrix Spike (2436044-MS1)					Source: E409006-01		Prepared: 09/05/24 Analyzed: 09/10/24		
Diesel Range Organics (C10-C28)	231	25.0	250	34.7	78.4	38-132			
Surrogate: n-Nonane	45.1		50.0		90.2	50-200			

Matrix Spike Dup (2436044-MSD1)					Source: E409006-01		Prepared: 09/05/24 Analyzed: 09/10/24		
Diesel Range Organics (C10-C28)	243	25.0	250	34.7	83.3	38-132	5.19	20	
Surrogate: n-Nonane	46.9		50.0		93.7	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/11/2024 2:25:10PM
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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 (2436049-BLK1)					Prepared: 09/05/24 Analyzed: 09/05/24				
Chloride	ND	20.0							
LCS (2436049-BS1)					Prepared: 09/05/24 Analyzed: 09/05/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2436049-MS1)					Source: E409008-03		Prepared: 09/05/24 Analyzed: 09/05/24		
Chloride	4330	100	250	4010	128	80-120			M4
Matrix Spike Dup (2436049-MSD1)					Source: E409008-03		Prepared: 09/05/24 Analyzed: 09/06/24		
Chloride	4310	100	250	4010	119	80-120	0.542	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/11/24 14:25

- 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

[illegible]

Envirotech Analytical Laboratory

Printed: 9/5/2024 8:28:00AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/05/24 08:00	Work Order ID:	E409021
Phone:	(972) 371-5200	Date Logged In:	09/05/24 07:54	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	09/11/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? 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: Rustler Breaks 2 Booster

Work Order: E409023

Job Number: 23003-0002

Received: 9/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/10/24

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: 9/10/24

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



Project Name: Rustler Breaks 2 Booster
Workorder: E409023
Date Received: 9/5/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/5/2024 8:00:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Sample Summary

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported: 09/10/24 10:20
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW09 - 0-10'	E409023-01A	Soil	09/03/24	09/05/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 9/10/2024 10:20:04AM
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SW09 - 0-10'

E409023-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2436041	
Benzene	ND	0.0250	1	09/05/24	09/06/24	
Ethylbenzene	ND	0.0250	1	09/05/24	09/06/24	
Toluene	ND	0.0250	1	09/05/24	09/06/24	
o-Xylene	ND	0.0250	1	09/05/24	09/06/24	
p,m-Xylene	ND	0.0500	1	09/05/24	09/06/24	
Total Xylenes	ND	0.0250	1	09/05/24	09/06/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		09/05/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2436041	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/05/24	09/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.8 %	70-130		09/05/24	09/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2436045	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/05/24	09/07/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/05/24	09/07/24	
Surrogate: n-Nonane	84.0 %	50-200		09/05/24	09/07/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2436049	
Chloride	489	20.0	1	09/05/24	09/06/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/10/2024 10:20:04AM

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 (2436041-BLK1) Prepared: 09/05/24 Analyzed: 09/06/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			

LCS (2436041-BS1) Prepared: 09/05/24 Analyzed: 09/06/24

Benzene	5.28	0.0250	5.00		106	70-130			
Ethylbenzene	5.13	0.0250	5.00		103	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.09	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.7	70-130			

Matrix Spike (2436041-MS1) Source: E409011-05 Prepared: 09/05/24 Analyzed: 09/06/24

Benzene	5.15	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.00	0.0250	5.00	ND	100	61-133			
Toluene	5.09	0.0250	5.00	ND	102	61-130			
o-Xylene	4.98	0.0250	5.00	ND	99.6	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.9	70-130			

Matrix Spike Dup (2436041-MSD1) Source: E409011-05 Prepared: 09/05/24 Analyzed: 09/06/24

Benzene	5.15	0.0250	5.00	ND	103	54-133	0.0223	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	0.384	20	
Toluene	5.11	0.0250	5.00	ND	102	61-130	0.309	20	
o-Xylene	5.00	0.0250	5.00	ND	100	63-131	0.426	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.296	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	0.339	20	
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/10/2024 10:20:04AM

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 (2436041-BLK1) Prepared: 09/05/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS (2436041-BS2) Prepared: 09/05/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			

Matrix Spike (2436041-MS2) Source: E409011-05 Prepared: 09/05/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike Dup (2436041-MSD2) Source: E409011-05 Prepared: 09/05/24 Analyzed: 09/06/24

Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.1	70-130	4.97	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/10/2024 10:20:04AM

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 (2436045-BLK1) Prepared: 09/05/24 Analyzed: 09/06/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.4		50.0		84.7	50-200			

LCS (2436045-BS1) Prepared: 09/05/24 Analyzed: 09/06/24

Diesel Range Organics (C10-C28)	198	25.0	250		79.3	38-132			
Surrogate: n-Nonane	43.4		50.0		86.7	50-200			

Matrix Spike (2436045-MS1) Source: E409011-08 Prepared: 09/05/24 Analyzed: 09/06/24

Diesel Range Organics (C10-C28)	236	25.0	250	38.2	79.0	38-132			
Surrogate: n-Nonane	43.8		50.0		87.6	50-200			

Matrix Spike Dup (2436045-MSD1) Source: E409011-08 Prepared: 09/05/24 Analyzed: 09/07/24

Diesel Range Organics (C10-C28)	241	25.0	250	38.2	81.1	38-132	2.30	20	
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/10/2024 10:20:04AM

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 (2436049-BLK1)					Prepared: 09/05/24 Analyzed: 09/05/24				
Chloride	ND	20.0							
LCS (2436049-BS1)					Prepared: 09/05/24 Analyzed: 09/05/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2436049-MS1)					Source: E409008-03		Prepared: 09/05/24 Analyzed: 09/05/24		
Chloride	4330	100	250	4010	128	80-120			M4
Matrix Spike Dup (2436049-MSD1)					Source: E409008-03		Prepared: 09/05/24 Analyzed: 09/06/24		
Chloride	4310	100	250	4010	119	80-120	0.542	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/10/24 10:20

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

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

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



Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State							
Company: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX				
Project: Rustler Breaks 2 Booster				Address: 3122 National Parks Hwy				E409023		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																							
												Analysis and Method				EPA Program							
												DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
																				Compliance	Y	or	N
																				PWSID #			
Sample Information																							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field	Filter	Lab Number												Remarks				
11:38	9/3/2024	S	1	SW09 - 0-10'			1																
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: Cole Burton																							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		<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"/> Y / <input 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: 9/5/2024 8:44:33AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/05/24 08:00	Work Order ID:	E409023
Phone:	(972) 371-5200	Date Logged In:	09/05/24 08:08	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	09/11/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? 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: Rustler Breaks 2 Booster

Work Order: E411251

Job Number: 23003-0002

Received: 11/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/26/24

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: 11/26/24

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



Project Name: Rustler Breaks 2 Booster
Workorder: E411251
Date Received: 11/23/2024 9:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/23/2024 9:15:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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Sample Summary

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/26/24 09:49

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS07 - 0'	E411251-01A	Soil	11/22/24	11/23/24	Glass Jar, 2 oz.
SS09 - 0'	E411251-02A	Soil	11/22/24	11/23/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/26/2024 9:49:02AM
---	--	-----------------------------------

SS07 - 0'

E411251-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2447131	
Benzene	ND	0.0250	1	11/23/24	11/24/24	
Ethylbenzene	ND	0.0250	1	11/23/24	11/24/24	
Toluene	ND	0.0250	1	11/23/24	11/24/24	
o-Xylene	ND	0.0250	1	11/23/24	11/24/24	
p,m-Xylene	ND	0.0500	1	11/23/24	11/24/24	
Total Xylenes	ND	0.0250	1	11/23/24	11/24/24	
Surrogate: 4-Bromochlorobenzene-PID	85.1 %	70-130		11/23/24	11/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2447131	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/24	11/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.3 %	70-130		11/23/24	11/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2447128	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/24	11/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/24	11/24/24	
Surrogate: n-Nonane	106 %	50-200		11/23/24	11/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2448003	
Chloride	243	20.0	1	11/25/24	11/25/24	



Sample Data

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

Project Name: Rustler Breaks 2 Booster
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
11/26/2024 9:49:02AM

SS09 - 0'

E411251-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2447131	
Benzene	ND	0.0250	1	11/23/24	11/24/24	
Ethylbenzene	ND	0.0250	1	11/23/24	11/24/24	
Toluene	ND	0.0250	1	11/23/24	11/24/24	
o-Xylene	ND	0.0250	1	11/23/24	11/24/24	
p,m-Xylene	ND	0.0500	1	11/23/24	11/24/24	
Total Xylenes	ND	0.0250	1	11/23/24	11/24/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	85.3 %	70-130		11/23/24	11/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2447131	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/24	11/24/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.8 %	70-130		11/23/24	11/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2447128	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/24	11/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/24	11/24/24	
<i>Surrogate: n-Nonane</i>	101 %	50-200		11/23/24	11/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2448003	
Chloride	170	20.0	1	11/25/24	11/25/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/26/2024 9:49:02AM

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 (2447131-BLK1) Prepared: 11/23/24 Analyzed: 11/24/24

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	6.76		8.00		84.5	70-130			

LCS (2447131-BS1) Prepared: 11/23/24 Analyzed: 11/24/24

Benzene	4.72	0.0250	5.00		94.3	70-130			
Ethylbenzene	4.48	0.0250	5.00		89.5	70-130			
Toluene	4.61	0.0250	5.00		92.2	70-130			
o-Xylene	4.47	0.0250	5.00		89.3	70-130			
p,m-Xylene	9.08	0.0500	10.0		90.8	70-130			
Total Xylenes	13.5	0.0250	15.0		90.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.9	70-130			

LCS Dup (2447131-BSD1) Prepared: 11/23/24 Analyzed: 11/24/24

Benzene	4.91	0.0250	5.00		98.3	70-130	4.14	20	
Ethylbenzene	4.66	0.0250	5.00		93.2	70-130	4.03	20	
Toluene	4.81	0.0250	5.00		96.2	70-130	4.15	20	
o-Xylene	4.65	0.0250	5.00		93.0	70-130	4.03	20	
p,m-Xylene	9.46	0.0500	10.0		94.6	70-130	4.10	20	
Total Xylenes	14.1	0.0250	15.0		94.1	70-130	4.08	20	
Surrogate: 4-Bromochlorobenzene-PID	6.87		8.00		85.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/26/2024 9:49:02AM

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 (2447131-BLK1) Prepared: 11/23/24 Analyzed: 11/24/24

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

LCS (2447131-BS2) Prepared: 11/23/24 Analyzed: 11/24/24

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

LCS Dup (2447131-BSD2) Prepared: 11/23/24 Analyzed: 11/24/24

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.8	70-130	4.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/26/2024 9:49:02AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2447128-BLK1)					Prepared: 11/23/24 Analyzed: 11/24/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.0		50.0		102	50-200			

LCS (2447128-BS1)					Prepared: 11/23/24 Analyzed: 11/24/24				
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			

LCS Dup (2447128-BSD1)					Prepared: 11/23/24 Analyzed: 11/24/24				
Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132	4.47	20	
Surrogate: n-Nonane	54.9		50.0		110	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/26/2024 9:49:02AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2448003-BLK1)					Prepared: 11/25/24 Analyzed: 11/25/24				
Chloride	ND	20.0							
LCS (2448003-BS1)					Prepared: 11/25/24 Analyzed: 11/25/24				
Chloride	254	20.0	250		102	90-110			
LCS Dup (2448003-BSD1)					Prepared: 11/25/24 Analyzed: 11/25/24				
Chloride	255	20.0	250		102	90-110	0.425	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/26/24 09:49

- 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

Envirotech Analytical Laboratory

Printed: 11/23/2024 10:23:48AM

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:	11/23/24 09:15	Work Order ID:	E411251
Phone:	(972) 371-5200	Date Logged In:	11/22/24 14:52	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	11/25/24 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? 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.

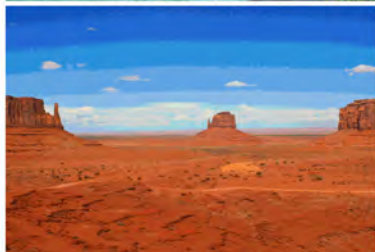
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Rustler Breaks 2 Booster

Work Order: E411252

Job Number: 23003-0002

Received: 11/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/26/24

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: 11/26/24

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



Project Name: Rustler Breaks 2 Booster
Workorder: E411252
Date Received: 11/23/2024 9:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/23/2024 9:15:00AM, under the Project Name: Rustler Breaks 2 Booster.

The analytical test results summarized in this report with the Project Name: Rustler Breaks 2 Booster apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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Sample Summary

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported: 11/26/24 09:50
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS08 - 0'	E411252-01A	Soil	11/22/24	11/23/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Rustler Breaks 2 Booster Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 11/26/2024 9:50:22AM
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SS08 - 0'

E411252-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2447131	
Benzene	ND	0.0250	1	11/23/24	11/24/24	
Ethylbenzene	ND	0.0250	1	11/23/24	11/24/24	
Toluene	ND	0.0250	1	11/23/24	11/24/24	
o-Xylene	ND	0.0250	1	11/23/24	11/24/24	
p,m-Xylene	ND	0.0500	1	11/23/24	11/24/24	
Total Xylenes	ND	0.0250	1	11/23/24	11/24/24	
Surrogate: 4-Bromochlorobenzene-PID	85.8 %	70-130		11/23/24	11/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2447131	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/24	11/24/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		11/23/24	11/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2447128	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/24	11/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/24	11/24/24	
Surrogate: n-Nonane	106 %	50-200		11/23/24	11/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2448003	
Chloride	298	100	5	11/25/24	11/25/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/26/2024 9:50:22AM

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 (2447131-BLK1) Prepared: 11/23/24 Analyzed: 11/24/24

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	6.76		8.00		84.5	70-130			

LCS (2447131-BS1) Prepared: 11/23/24 Analyzed: 11/24/24

Benzene	4.72	0.0250	5.00		94.3	70-130			
Ethylbenzene	4.48	0.0250	5.00		89.5	70-130			
Toluene	4.61	0.0250	5.00		92.2	70-130			
o-Xylene	4.47	0.0250	5.00		89.3	70-130			
p,m-Xylene	9.08	0.0500	10.0		90.8	70-130			
Total Xylenes	13.5	0.0250	15.0		90.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.95		8.00		86.9	70-130			

LCS Dup (2447131-BSD1) Prepared: 11/23/24 Analyzed: 11/24/24

Benzene	4.91	0.0250	5.00		98.3	70-130	4.14	20	
Ethylbenzene	4.66	0.0250	5.00		93.2	70-130	4.03	20	
Toluene	4.81	0.0250	5.00		96.2	70-130	4.15	20	
o-Xylene	4.65	0.0250	5.00		93.0	70-130	4.03	20	
p,m-Xylene	9.46	0.0500	10.0		94.6	70-130	4.10	20	
Total Xylenes	14.1	0.0250	15.0		94.1	70-130	4.08	20	
Surrogate: 4-Bromochlorobenzene-PID	6.87		8.00		85.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/26/2024 9:50:22AM

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 (2447131-BLK1) Prepared: 11/23/24 Analyzed: 11/24/24

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

LCS (2447131-BS2) Prepared: 11/23/24 Analyzed: 11/24/24

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

LCS Dup (2447131-BSD2) Prepared: 11/23/24 Analyzed: 11/24/24

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.8	70-130	4.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/26/2024 9:50:22AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2447128-BLK1)					Prepared: 11/23/24 Analyzed: 11/24/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.0		50.0		102	50-200			

LCS (2447128-BS1)					Prepared: 11/23/24 Analyzed: 11/24/24				
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	53.5		50.0		107	50-200			

LCS Dup (2447128-BSD1)					Prepared: 11/23/24 Analyzed: 11/24/24				
Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132	4.47	20	
Surrogate: n-Nonane	54.9		50.0		110	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Rustler Breaks 2 Booster	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/26/2024 9:50:22AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2448003-BLK1)					Prepared: 11/25/24 Analyzed: 11/25/24				
Chloride	ND	20.0							
LCS (2448003-BS1)					Prepared: 11/25/24 Analyzed: 11/25/24				
Chloride	254	20.0	250		102	90-110			
LCS Dup (2448003-BSD1)					Prepared: 11/25/24 Analyzed: 11/25/24				
Chloride	255	20.0	250		102	90-110	0.425	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:	Rustler Breaks 2 Booster	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	11/26/24 09:50

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**

Envirotech Analytical Laboratory

Printed: 11/25/2024 11:06:19AM

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:	11/23/24 09:15	Work Order ID:	E411252
Phone:	(972) 371-5200	Date Logged In:	11/22/24 14:57	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	11/25/24 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? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX E

NMOCD Correspondence

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

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

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

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

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

QUESTIONS

Action 246840

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 246840
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Rustler Breaks 2 Booster Station
Date Release Discovered	08/01/2023
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
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 32 BBL Recovered: 0 BBL Lost: 32 BBL.
Is the concentration of dissolved 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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Santa Fe, NM 87505

QUESTIONS, Page 2
Action 246840

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 246840
	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 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	<ul style="list-style-type: none">Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Clint Talley
If YES, was immediate notice given to the OCD, to whom	OCD
If YES, was immediate notice given to the OCD, when	08/01/2023
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	website
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 19.15.29.8 B. (4) 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.	

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Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 246840

ACKNOWLEDGMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 246840
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases 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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Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 246840

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 246840
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
ctalley_mat	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	8/1/2023

District I
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District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Incident ID	nAPP2321360002
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Matador Production Company	OGRID 228937
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # <i>(assigned by OCD) nAPP2321360002</i>
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

Location of Release Source

Latitude 32.25081 Longitude -104.13487
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Rustler Breaks 2 Boster Station	Site Type Oil Well
Date Release Discovered 08/01/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	06	24S	28E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 32 bbls	Volume Recovered (bbls) 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Discharge pump (bracket)

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

$$+ Recovered\ Fluids\ (bbl)$$


On-Pad $((4,618 \times 0.033) / 4.21) \times 0.15 = 5.43$ bbls **Off-Pad** $((2,991 \times 0.083) / 4.21) \times 0.45 = 26.53$ bbls **Total:** 31.96 bbls

Incident ID	nAPP2321360002
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to NMOCD on 08/01/2023 via website.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Clint Talley</u>	Title: <u>EHS Supervisor</u>
Signature: <u></u>	Date: <u>08/02/2023</u>
email: <u>Clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>
<u>OCD Only</u>	
Received by: <u>Shelly Wells</u>	Date: <u>8/3/2023</u>

Incident ID	nAPP2321360002
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <div><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input type="checkbox"/> Field data<input type="checkbox"/> Data table of soil contaminant concentration data<input type="checkbox"/> Depth to water determination<input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input type="checkbox"/> Boring or excavation logs<input type="checkbox"/> Photographs including date and GIS information<input type="checkbox"/> Topographic/Aerial maps<input type="checkbox"/> Laboratory data including chain of custody</div>

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2321360002
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2321360002
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	nAPP2321360002
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

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

CONDITIONS

Action 247168

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 247168
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	8/3/2023

District I

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

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QUESTIONS

Action 298436

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 298436
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2321360002
Incident Name	NAPP2321360002 RUSTLER BREAKS 2 BOOSTER STATION @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

Location of Release Source

Site Name	RUSTLER BREAKS 2 BOOSTER STATION
Date Release Discovered	08/01/2023
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	3,425
What is the estimated number of samples that will be gathered	46
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/22/2023
Time sampling will commence	09:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.25081, -104.13487

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CONDITIONS

Action 298436

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 298436
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
c_talley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/29/2023

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QUESTIONS

Action 368956

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 368956
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2321360002
Incident Name	NAPP2321360002 RUSTLER BREAKS 2 BOOSTER STATION @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	RUSTLER BREAKS 2 BOOSTER STATION
Date Release Discovered	08/01/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,600
What is the estimated number of samples that will be gathered	8
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/05/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.25081°, -104.13487°)

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Santa Fe, NM 87505

CONDITIONS

Action 368956

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 368956
	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.	7/31/2024

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QUESTIONS

Action 368958

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 368958
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2321360002
Incident Name	NAPP2321360002 RUSTLER BREAKS 2 BOOSTER STATION @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	RUSTLER BREAKS 2 BOOSTER STATION
Date Release Discovered	08/01/2023
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,600
What is the estimated number of samples that will be gathered	8
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/06/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.25081°, -104.13487°)

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CONDITIONS

Action 368958

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 368958
	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.	7/31/2024

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General Information
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Oil Conservation Division
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QUESTIONS

Action 410384

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 410384
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2321360002
Incident Name	NAPP2321360002 RUSTLER BREAKS 2 BOOSTER STATION @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	RUSTLER BREAKS 2 BOOSTER STATION
Date Release Discovered	08/01/2023
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: Equipment Failure Pump Produced Water Released: 32 BBL Recovered: 0 BBL Lost: 32 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 410384

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 410384
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 12/10/2024
--	--

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Phone: (505) 476-3441

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QUESTIONS, Page 3

Action 410384

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 410384
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<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)	21400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	55.3
GRO+DRO (EPA SW-846 Method 8015M)	55.3
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	11/22/2024
On what date will (or did) the final sampling or liner inspection occur	09/03/2024
On what date will (or was) the remediation complete(d)	09/03/2024
What is the estimated surface area (in square feet) that will be reclaimed	7929
What is the estimated volume (in cubic yards) that will be reclaimed	1379
What is the estimated surface area (in square feet) that will be remediated	7929
What is the estimated volume (in cubic yards) that will be remediated	1379

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 410384

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 410384
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	<i>Not answered.</i>
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	R360 Hobbs
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 12/10/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 410384

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 410384
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Deferral Area is directly beneath electric panels and water transfer pumps.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	200
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	3.7
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-44240 RUSTLER BREAKS SWD #002
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 12/10/2024

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 410384

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 410384
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	404455
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/22/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 410384

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 410384
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of FS23 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	12/16/2024