



May 8, 2024

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

**Re: Closure Request
ABE 1 TB
Incident Number nAPP2406265359
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the ABE 1 TB (Site). The Site is located in Unit L, Section 28, Township 21 South, Range 33 East, in Lea County, New Mexico (32.44503°, -103.57516°) and is associated with oil and gas exploration and production operations on Private Land.

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations, field screening activities, and soil sampling laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2406265359.

BACKGROUND

On March 2, 2024, a produced water pipeline developed a leak, which resulted in the release of approximately 21 barrels (bbls) of produced water onto an off-pad area north of the caliche pad; none of the release produced water liquids were recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on March 2, 2024, and submitted an initial C-141 application (Form C-141) on March 6, 2024. The release was subsequently assigned Incident Number nAPP2406265359.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well, CP 01356 POD1, located approximately 1/2-mile southeast of the Site. The well had a reported depth to groundwater greater than 765 feet below ground surface (bgs) and a

total depth of 1,098 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 0.94 miles southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

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

SITE ASSESSMENT ACTIVITIES

On March 4, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On March 7, 2024, Ensolum personnel were onsite to conduct lateral and vertical delineation sampling activities. Five delineation soil samples (SS01 through SS05) were collected from around the release extent at ground surface to assess the lateral extent of affected soil. Three boreholes were advanced via hand auger within the release extent to assess the vertical extent of the release area. Boreholes BH01 through BH03 were advanced to a depth of 1-foot bgs. Discrete delineation soil samples were collected from each borehole at depths ranging from ground surface to 1-foot bgs. Soil from the discrete delineation soil samples was field screened for chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

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

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

Beginning on April 10, 2024, waste-containing soil was excavated from the off-pad spill area as indicated by visible staining, field screening activities, and laboratory analytical results from delineation soil samples. Excavation activities were performed using a backhoe and transport vehicles. The excavation occurred on the well pad and on the west side of the separators. To direct excavation activities, Ensolum personnel screened soil for TPH and chloride utilizing a PetroFLAG[®] analyzer kit and Hach[®] chloride QuanTab[®] test strips, respectively.

Following the removal of waste-containing soil, Ensolum personnel collected 5-point composite soil samples representing at least 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS29) were collected from the floor of the excavation at depths ranging from 0.5 feet to 1.5 feet bgs. Confirmation sidewall soil samples (SW01 through SW03) were collected at depths ranging from ground surface to 1-foot bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 5,617 square feet. A total of approximately 320 cubic yards of waste-containing soil was removed during the excavation activities. The waste-containing soil was transported and properly disposed of at the R360 Facility in Hobbs New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01 through SS05, collected around the release extent, indicated all COC concentrations were compliant with Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results for the vertical delineation soil samples collected from boreholes BH01 through BH03 indicated all COC concentrations were in compliance with the Site Closure Criteria and with the strictest criteria at a depth of 1-foot bgs.

Laboratory analytical results for excavation floor soil samples FS01 through FS29 indicated all COC concentrations were in compliance with the strictest Closure Criteria at depth ranging from 0.5 feet to 1.5 feet bgs. Laboratory analytical results for confirmation side wall samples SW01 through SW03 were all below the strictest closure criteria from ground surface to 1-foot bgs. Laboratory analytical results are summarized in Tables 1 and 2 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

The release extent has been laterally defined to the strictest Closure Criteria per NMOCD Table I by delineation soil samples (SS01 through SS05), collected at ground surface, and vertically by boreholes (BH01 through BH03), collected at a depth of 1-foot bgs. Excavation of the waste-containing soil area off pad was completed, and excavation floor samples (FS01 through FS29), collected at depths ranging from 0.5 feet to 1.5 feet bgs, and confirmation sidewall soil samples (SW01 through SW03), collected from ground surface to 1-foot bgs, were all in compliance with the strictest Closure Criteria and with the reclamation requirement.

ABE 1 TB



Based on the remedial actions completed to date and a depth to groundwater greater than 765 feet bgs, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2406265359.

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

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "Ashley Giovengo".

Ashley Giovengo
Senior Scientist

A handwritten signature in black ink, appearing to read "Daniel R. Moir".

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

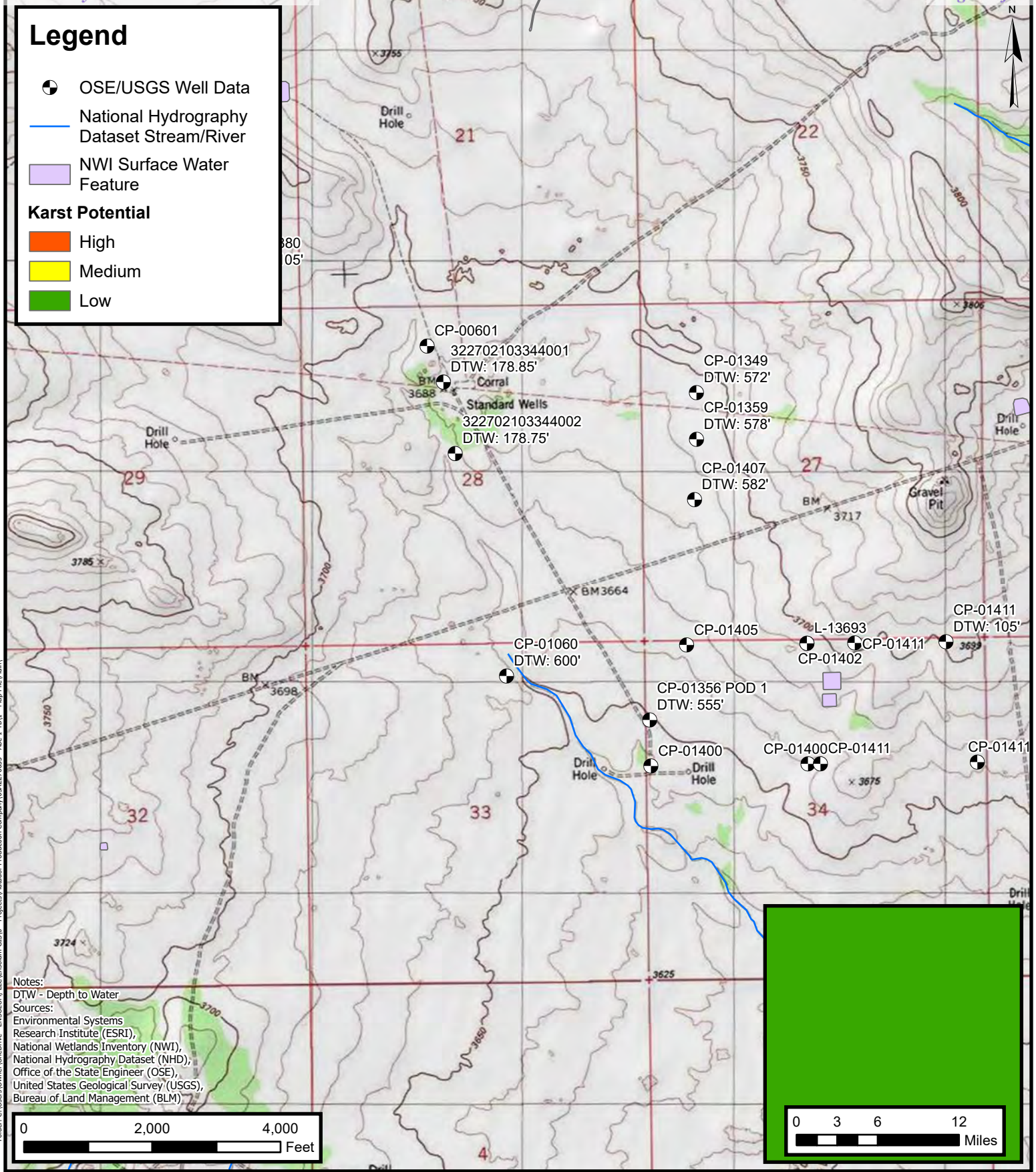
Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Soil Samples)
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





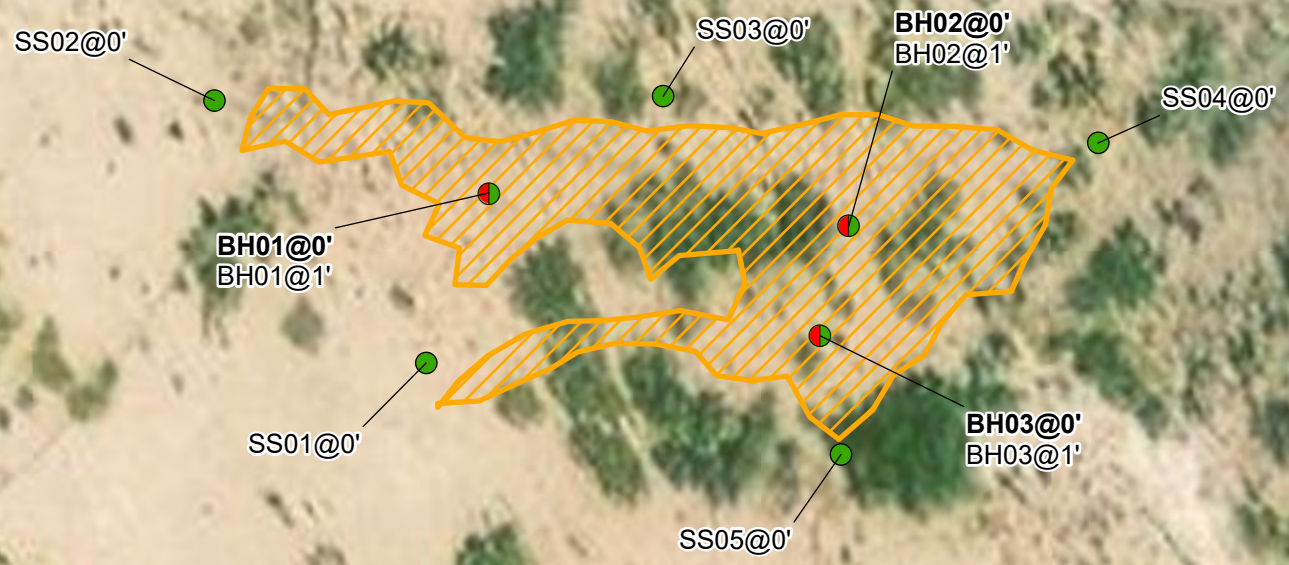
Site Receptor Map
 Matador Production Company
 Abe 1 TB
 Incident Number: nAPP2406265359
 Unit L, Section 28, Township 21S, Range 33E
 Eddy County, New Mexico

FIGURE
1

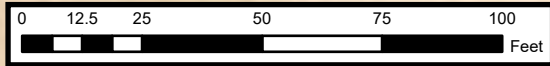


Legend

- Delineation Soil Samples Compliant with Closure Criteria
- Delineation Soil Samples with Initial Concentrations Exceeding Closure Criteria
- Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable Closure Criteria.



Sources: Environmental Systems Research Institute (ESRI)



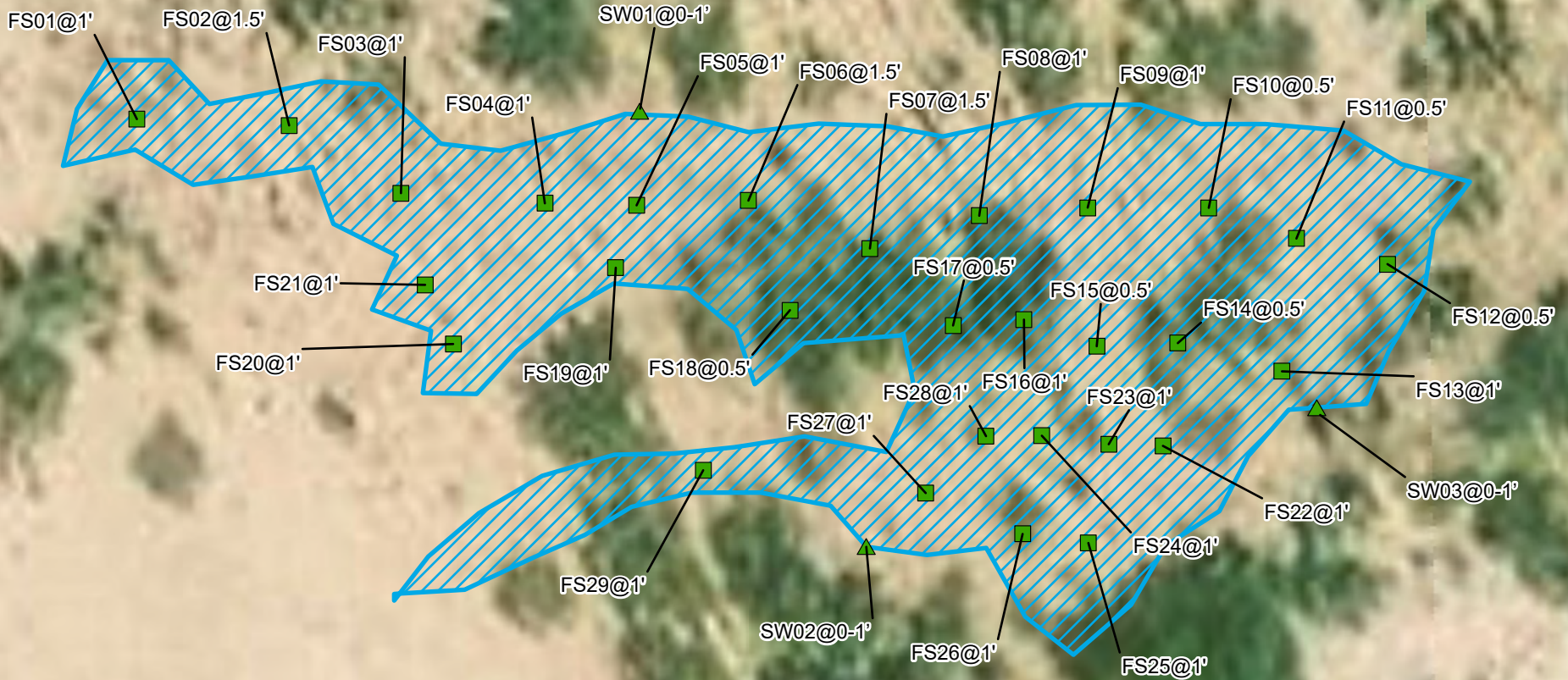
Delineation Soil Sample Locations

Matador Production Company
 ABE 1 TB
 Incident Number: nAPP2406265359
 Unit L, Section 28, Township 21S, Range 33E
 Lea County, New Mexico, United States

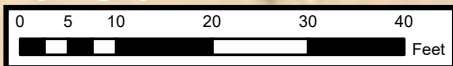
FIGURE
2

Legend

- Floor Soil Samples in Compliance with NMOCD Closure Criteria
- ▲ Sidewall Soil Samples in Compliance with NMOCD Closure Criteria
- Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Confirmation Soil Sample Locations

Matador Production Company
 ABE 1 TB
 Incident Number: nAPP2406265359
 Unit L, Section 28, Township 21S, Range 33E
 Lea County, New Mexico, United States

**FIGURE
3**



TABLES





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

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	40.9
SS02	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS03	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS04	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS05	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BH01	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	4,480
BH01	3/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	147
BH02	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	3,820
BH02	3/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	98.8
BH03	3/7/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,200
BH03	3/7/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	23.9

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
ABE 1 TB
Matador Production Company
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Soil Samples										
FS01	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	308
FS02	4/15/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	76.5
FS03	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	92.8
FS04	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	27.6
FS05	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	31.1
FS06	4/15/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	87.2
FS07	4/15/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	52.4
FS08	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	74.0
FS09	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	34.3
FS10	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	95.0
FS11	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	251
FS12	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	368
FS13	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
FS14	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	321
FS15	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	231
FS16	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	121
FS17	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	299
FS18	4/11/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	492
FS19	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	27.0
FS20	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	45.2

Notes:

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mg/kg: milligrams per kilogram

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Grey text represents samples that have been excavated

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
ABE 1 TB
Matador Production Company
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Soil Samples										
FS21	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	34.9
FS22	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	52.1
FS23	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	44.1
FS24	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	72.7
FS25	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	49.2
FS26	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	37.2
FS27	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	28.9
FS28	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	41.2
FS29	4/12/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	92.1
Sidewall Soil Samples										
SW01	4/15/2024	0-1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	163
SW02	4/15/2024	0-1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	65.0
SW03	4/15/2024	0-1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	83.4

Notes:

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GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log and Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) CP-1356 (JD-33 East)				OSE FILE NUMBER(S)				
	WELL OWNER NAME(S) Merchants/Glenn's Water Well Service, Inc.				PHONE (OPTIONAL) 575-398-2424				
	WELL OWNER MAILING ADDRESS P. O. Box 692				CITY Tatum		STATE NM		ZIP 88267
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES		SECONDS		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LATITUDE	32	26	20.9	N			
	LONGITUDE	103	34	7	W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE1/4NE1/4NE1/4 Section 33, Township 21 South, Range 33 East on Merchants Livestock Land									
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD 421		NAME OF LICENSED DRILLER Corky Glenn			NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.			
	DRILLING STARTED 08/01/14	DRILLING ENDED 08/09/14	DEPTH OF COMPLETED WELL (FT) 1,098'		BORE HOLE DEPTH (FT) 1,098'	DEPTH WATER FIRST ENCOUNTERED (FT) 765'			
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 555.2'			
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY:								
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:								
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
	FROM	TO							
	0'	40'	20"	16"	None	15 1/2"	.250		
	0'	760'	14 3/4"	9 5/8"	Thread & Collar	8.921"	36 lbs.	none	
	735'	1,098'	8 3/4"	7"	Thread & Collar	6.366"	23 lbs.	1/8"	
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT			
	FROM	TO							
	0'	40'	20"	Cemented	2 yds.	Top Pour			
	0'	760'	14 3/4"	Float and shoe cemented to surface	655 cu ft	Circulated			


FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1356	POD NUMBER	1	TRN NUMBER	549453
LOCATION	E1P1	21S.33E.33.224			PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	3	3	Soil	<input type="radio"/> Y <input checked="" type="radio"/> N	
	3	34	31	Caleche	<input type="radio"/> Y <input checked="" type="radio"/> N	
	34	275	241	Red Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	275	760	485	Red & Brown Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
	760	765	5	Red Shale & Sandrock	<input type="radio"/> Y <input checked="" type="radio"/> N	
	765	795	30	Water Sand	<input checked="" type="radio"/> Y <input type="radio"/> N	
	795	825	30	Red Shale & Sandrock	<input checked="" type="radio"/> Y <input type="radio"/> N	
	825	920	95	Water Sand	<input checked="" type="radio"/> Y <input type="radio"/> N	
	920	935	15	Red Shale & Sandrock	<input checked="" type="radio"/> Y <input type="radio"/> N	
	935	968	33	Water Sand & Sandrock	<input checked="" type="radio"/> Y <input type="radio"/> N	
	968	976	8	Red Shale & Sandrock	<input checked="" type="radio"/> Y <input type="radio"/> N	
	976	1005	29	Water sand & strips of red shale	<input checked="" type="radio"/> Y <input type="radio"/> N	
	1005	1092	87	Water sand fine	<input checked="" type="radio"/> Y <input type="radio"/> N	
	1092	1098	6	Red Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="radio"/> PUMP					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:						

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	0' to 760' drilled with mud. 760' to 1,098' drilled with air and foam.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Conky Glenn DATE

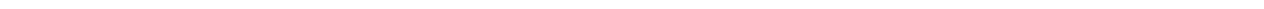
STATE ENGINEER
 OFFICE OF PERMITS
 2021 AUG 25

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP-1356	POD NUMBER	1
LOCATION	Exp1	TRN NUMBER	549453
		215.33E.33.224	PAGE 2 OF 2



APPENDIX B

Photographic Log





Photographic Log
 Matador Production Company
 ABE 1 TB
 Incident Number: nAPP2406265359



Photograph 1 Date: 03/04/2024
 Description: Initial Spill Area
 View: South



Photograph 2 Date: 03/04/2024
 Description: Initial Spill Area
 View: South



Photograph 3 Date: 03/04/2024
 Description: Initial Spill Area
 View: North



Photograph 4 Date: 03/04/2024
 Description: Initial Spill Area
 View: Southeast

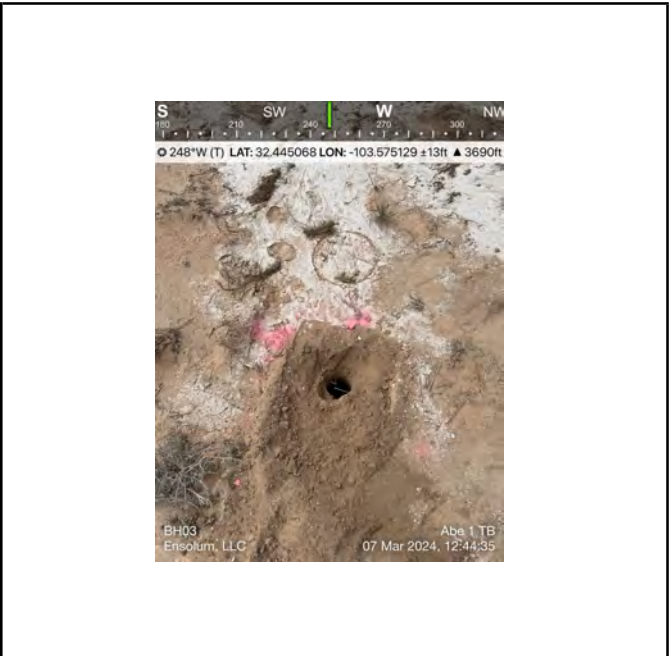


Photographic Log
 Matador Production Company
 ABE 1 TB
 Incident Number: nAPP2406265359



Photograph 5 Date:03/07/2024
 Description: Lease Sign
 View: West

Photograph 6 Date:03/07/2024
 Description: Delineation Sampling
 View: East



Photograph 7 Date:03/07/2024
 Description: Delineation Sampling
 View: South

Photograph 8 Date:03/07/2024
 Description: Delineation Sampling
 View: West



Photographic Log
 Matador Production Company
 ABE 1 TB
 Incident Number: nAPP2406265359



Photograph 9 Date: 04/10/2024
 Description: Excavation
 View: Northeast

Photograph 10 Date: 04/10/2024
 Description: Excavation
 View: South



Photograph 11 Date: 04/10/2024
 Description: Excavation
 View: West

Photograph 12 Date: 04/10/2024
 Description: Excavation - Contaminated Soil Pile
 View: South



Photographic Log
 Matador Production Company
 ABE 1 TB
 Incident Number: nAPP2406265359



Photograph 13 Date: 04/11/2024
 Description: Excavation
 View: West

Photograph 14 Date: 04/11/2024
 Description: Excavation
 View: Southwest



Photograph 15 Date: 04/11/2024
 Description: Excavation
 View: North

Photograph 16 Date: 04/11/2024
 Description: Excavation
 View: Northwest



Photographic Log
 Matador Production Company
 ABE 1 TB
 Incident Number: nAPP2406265359



Photograph 17 Date: 04/12/2024
 Description: Excavation
 View: Southwest

Photograph 18 Date: 04/12/2024
 Description: Excavation
 View: Southeast




Photograph 19 Date: 04/15/2024
 Description: Excavation
 View: West


Photograph 20 Date: 04/15/2024
 Description: Excavation
 View: East




APPENDIX C

Lithologic Soil Sampling Logs

					Sample Name: BH01		Date: 3/7/24	
					Site Name: Abe 1 TB			
					Incident Number: nAPP2406265359			
					Job Number: 03A2270033			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.445092, -103.575117					Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			N	BH02	0	0	SP-SM	Dry, Sand, No staining.
D	162	29	N	BH02	1	1	SP-SM	Dry, Sand, No staining.
Total Depth @ 1' bgs								

					Sample Name: BH02		Date: 3/7/24	
					Site Name: Abe 1 TB			
					Incident Number: nAPP2406265359			
					Job Number: 03A2270033			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.445092, -103.575117					Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			N	BH02	0	0	SP-SM	Dry, Sand, No staining.
D	ND	52	N	BH02	1	1	SP-SM	Dry, Sand, No staining.
Total Depth @ 1' bgs								

					Sample Name: BH03		Date: 3/7/24	
					Site Name: Abe 1 TB			
					Incident Number: nAPP2406265359			
					Job Number: 03A2270033			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.445030, -103.575137					Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and a PetroFLAG soil analyzer system for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			N	BH03	0	0	SP-SM	Moist, Sand, No staining.
D	ND	30	N	BH03	1	1	SP-SM	Dry, Sand, No staining.
Total Depth @ 1' bgs								



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Abe 1 TB

Work Order: E403095

Job Number: 23003-C-0001

Received: 3/11/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/18/24

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: 3/18/24



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

Project Name: Abe 1 TB
Workorder: E403095
Date Received: 3/11/2024 9:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/11/2024 9:45:00AM, under the Project Name: Abe 1 TB.

The analytical test results summarized in this report with the Project Name: Abe 1 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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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: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 03/18/24 12:01
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E403095-01A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
SS02-0'	E403095-02A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
SS03-0'	E403095-03A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
SS04-0'	E403095-04A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
SS05-0'	E403095-05A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 12:01:42PM
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SS01-0'

E403095-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2411023
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.4 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2411023
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.1 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/13/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	03/13/24	03/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2411101
Chloride	40.9	20.0	1	03/14/24	03/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 12:01:42PM
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SS02-0'

E403095-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2411023
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.0 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2411023
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.6 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/13/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	03/13/24	03/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2411101
Chloride	ND	20.0	1	03/14/24	03/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 12:01:42PM
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SS03-0'

E403095-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2411023
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.6 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2411023
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.4 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/13/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	03/13/24	03/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2411101
Chloride	ND	20.0	1	03/14/24	03/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 12:01:42PM
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SS04-0'

E403095-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2411023
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.2 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2411023
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.6 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	03/13/24	03/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2411101
Chloride	ND	20.0	1	03/14/24	03/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 12:01:42PM
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SS05-0'

E403095-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2411023
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.8 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2411023
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.2 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	03/13/24	03/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2411101
Chloride	ND	20.0	1	03/14/24	03/16/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 12:01:42PM
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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 (2411023-BLK1)

Prepared: 03/11/24 Analyzed: 03/11/24

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	7.58		8.00		94.7	70-130			

LCS (2411023-BS1)

Prepared: 03/11/24 Analyzed: 03/11/24

Benzene	5.03	0.0250	5.00		101	70-130			
Ethylbenzene	4.89	0.0250	5.00		97.8	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	4.96	0.0250	5.00		99.2	70-130			
p,m-Xylene	9.99	0.0500	10.0		99.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.75		8.00		96.8	70-130			

Matrix Spike (2411023-MS1)

Source: E403092-02

Prepared: 03/11/24 Analyzed: 03/12/24

Benzene	5.08	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133			
Toluene	5.07	0.0250	5.00	ND	101	61-130			
o-Xylene	5.00	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130			

Matrix Spike Dup (2411023-MSD1)

Source: E403092-02

Prepared: 03/11/24 Analyzed: 03/12/24

Benzene	5.12	0.0250	5.00	ND	102	54-133	0.804	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.3	61-133	0.633	20	
Toluene	5.10	0.0250	5.00	ND	102	61-130	0.603	20	
o-Xylene	5.04	0.0250	5.00	ND	101	63-131	0.747	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.786	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.773	20	
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 12:01:42PM
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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 (2411023-BLK1)

Prepared: 03/11/24 Analyzed: 03/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.09		8.00		88.7	70-130			

LCS (2411023-BS2)

Prepared: 03/11/24 Analyzed: 03/12/24

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			

Matrix Spike (2411023-MS2)

Source: E403092-02

Prepared: 03/11/24 Analyzed: 03/12/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

Matrix Spike Dup (2411023-MSD2)

Source: E403092-02

Prepared: 03/11/24 Analyzed: 03/12/24

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.8	70-130	2.11	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 12:01:42PM
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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 (2411065-BLK1)

Prepared: 03/13/24 Analyzed: 03/13/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	51.8		50.0		104	50-200			

LCS (2411065-BS1)

Prepared: 03/13/24 Analyzed: 03/13/24

Diesel Range Organics (C10-C28)	294	25.0	250		118	38-132			
Surrogate: <i>n</i> -Nonane	53.1		50.0		106	50-200			

Matrix Spike (2411065-MS1)

Source: E403117-02

Prepared: 03/13/24 Analyzed: 03/13/24

Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132			
Surrogate: <i>n</i> -Nonane	51.8		50.0		104	50-200			

Matrix Spike Dup (2411065-MSD1)

Source: E403117-02

Prepared: 03/13/24 Analyzed: 03/13/24

Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	38-132	2.06	20	
Surrogate: <i>n</i> -Nonane	55.4		50.0		111	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 12:01:42PM
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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 (2411101-BLK1)

Prepared: 03/14/24 Analyzed: 03/16/24

Chloride	ND	20.0							
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LCS (2411101-BS1)

Prepared: 03/14/24 Analyzed: 03/16/24

Chloride	253	20.0	250		101	90-110			
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LCS Dup (2411101-BSD1)

Prepared: 03/14/24 Analyzed: 03/16/24

Chloride	253	20.0	250		101	90-110	0.120	20	
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 03/18/24 12:01
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: Matador Production Company.
 Project: Abe 1 TB
 Project Manager: Ashley Giovengo
 Address: 3122 National Parks Hwy
 City, State, Zip: Carlsbad NM, 88220
 Phone: 575-988-0055
 Email: agiovengo@ensolum.com

Ensolum

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

Lab Use Only
 Lab WO# E403095 Job Number 23003-C-0001
 1D 2D 3D Standard x

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

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	Remarks
9:50	3/7/2024	Soil	1	SS01 - 0'	1							X		
9:52	3/7/2024	Soil	1	SS02 - 0'	2							X		
9:54	3/7/2024	Soil	1	SS03 - 0'	3							X		
9:57	3/7/2024	Soil	1	SS04 - 0'	4							X		
12:25	3/7/2024	Soil	1	SS05 - 0'	5							X		

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

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

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

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>3/8/24</u>	Time <u>8:03</u>	Received by: (Signature) <u>Michelle Gay</u>	Date <u>3-8-24</u>	Time <u>0803</u>	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gay</u>	Date <u>3-8-24</u>	Time <u>1745</u>	Received by: (Signature) <u>Andrew Russo</u>	Date <u>3-8-24</u>	Time <u>1745</u>	
Relinquished by: (Signature) <u>Andrew Russo</u>	Date <u>3-8-24</u>	Time <u>2400</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>3/11/24</u>	Time <u>945</u>	

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

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



Envirotech Analytical Laboratory

Printed: 3/11/2024 1:28:20PM

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: 03/11/24 09:45	Work Order ID: E403095
Phone: (972) 371-5200	Date Logged In: 03/11/24 13:25	Logged In By: Alexa Michaels
Email: agiovnngo@ensolum.com	Due Date: 03/15/24 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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Abe 1 TB

Work Order: E403096

Job Number: 23003-C-0001

Received: 3/11/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/18/24

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: 3/18/24



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

Project Name: Abe 1 TB
Workorder: E403096
Date Received: 3/11/2024 9:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/11/2024 9:45:00AM, under the Project Name: Abe 1 TB.

The analytical test results summarized in this report with the Project Name: Abe 1 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 03/18/24 16:08
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E403096-01A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
BH02-0'	E403096-02A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
BH03-0'	E403096-03A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
BH01-1'	E403096-04A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
BH02-1'	E403096-05A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.
BH03-1'	E403096-06A	Soil	03/07/24	03/11/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 4:08:19PM
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BH01-0'
E403096-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RAS		Batch: 2411035
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
<i>Surrogate: Bromofluorobenzene</i>		109 %	70-130	03/11/24	03/15/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.3 %	70-130	03/11/24	03/15/24	
<i>Surrogate: Toluene-d8</i>		112 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RAS		Batch: 2411035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
<i>Surrogate: Bromofluorobenzene</i>		109 %	70-130	03/11/24	03/15/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.3 %	70-130	03/11/24	03/15/24	
<i>Surrogate: Toluene-d8</i>		112 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2411083
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/15/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	03/13/24	03/15/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2411101
Chloride	4480	40.0	2	03/14/24	03/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 4:08:19PM
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BH02-0'
E403096-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411035
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	03/11/24	03/15/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.3 %	70-130	03/11/24	03/15/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
<i>Surrogate: Bromofluorobenzene</i>		108 %	70-130	03/11/24	03/15/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.3 %	70-130	03/11/24	03/15/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2411083
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/16/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	03/13/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2411101
Chloride	3820	40.0	2	03/14/24	03/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 4:08:19PM
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BH03-0'
E403096-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411035
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	03/11/24	03/15/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	70-130	03/11/24	03/15/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	03/11/24	03/15/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	70-130	03/11/24	03/15/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411083
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/16/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	03/13/24	03/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2411101
Chloride	1200	20.0	1	03/14/24	03/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 4:08:19PM
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BH01-1'
E403096-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411035
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	03/11/24	03/15/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.5 %	70-130	03/11/24	03/15/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	03/11/24	03/15/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.5 %	70-130	03/11/24	03/15/24	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2411083
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/16/24	
<i>Surrogate: n-Nonane</i>		108 %	50-200	03/13/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2411101
Chloride	147	20.0	1	03/14/24	03/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 4:08:19PM
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BH02-1'
E403096-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411035
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	03/11/24	03/15/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	03/11/24	03/15/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2411035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	03/11/24	03/15/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	03/11/24	03/15/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2411083
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/16/24	
<i>Surrogate: n-Nonane</i>		109 %	50-200	03/13/24	03/16/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2411101
Chloride	98.8	20.0	1	03/14/24	03/16/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 4:08:19PM
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BH03-1'
E403096-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2411035
Benzene	ND	0.0250	1	03/11/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/11/24	03/15/24	
Toluene	ND	0.0250	1	03/11/24	03/15/24	
o-Xylene	ND	0.0250	1	03/11/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/11/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/11/24	03/15/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	03/11/24	03/15/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	03/11/24	03/15/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2411035
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/11/24	03/15/24	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	03/11/24	03/15/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.1 %	70-130	03/11/24	03/15/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	03/11/24	03/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2411083
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/16/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	03/13/24	03/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2411101
Chloride	23.9	20.0	1	03/14/24	03/16/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 4:08:19PM
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Volatile Organic Compounds by EPA 8260B

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 (2411035-BLK1)

Prepared: 03/11/24 Analyzed: 03/15/24

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	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.4	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2411035-BS1)

Prepared: 03/11/24 Analyzed: 03/15/24

Benzene	2.53	0.0250	2.50		101	70-130			
Ethylbenzene	2.54	0.0250	2.50		102	70-130			
Toluene	2.75	0.0250	2.50		110	70-130			
o-Xylene	2.54	0.0250	2.50		101	70-130			
p,m-Xylene	5.05	0.0500	5.00		101	70-130			
Total Xylenes	7.59	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			

Matrix Spike (2411035-MS1)

Source: E403098-02

Prepared: 03/11/24 Analyzed: 03/15/24

Benzene	2.50	0.0250	2.50	ND	99.9	48-131			
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135			
Toluene	2.77	0.0250	2.50	ND	111	48-130			
o-Xylene	2.51	0.0250	2.50	ND	100	43-135			
p,m-Xylene	4.99	0.0500	5.00	ND	99.8	43-135			
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			

Matrix Spike Dup (2411035-MSD1)

Source: E403098-02

Prepared: 03/11/24 Analyzed: 03/15/24

Benzene	2.48	0.0250	2.50	ND	99.3	48-131	0.582	23	
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135	0.117	27	
Toluene	2.76	0.0250	2.50	ND	110	48-130	0.344	24	
o-Xylene	2.52	0.0250	2.50	ND	101	43-135	0.477	27	
p,m-Xylene	5.00	0.0500	5.00	ND	99.9	43-135	0.0501	27	
Total Xylenes	7.52	0.0250	7.50	ND	100	43-135	0.193	27	
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	0.549		0.500		110	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 4:08:19PM
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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 (2411035-BLK1)

Prepared: 03/11/24 Analyzed: 03/15/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.4	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			

LCS (2411035-BS2)

Prepared: 03/11/24 Analyzed: 03/15/24

Gasoline Range Organics (C6-C10)	56.7	20.0	50.0		113	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.562		0.500		112	70-130			

Matrix Spike (2411035-MS2)

Source: E403098-02

Prepared: 03/11/24 Analyzed: 03/15/24

Gasoline Range Organics (C6-C10)	64.0	20.0	50.0	ND	128	70-130			
Surrogate: Bromofluorobenzene	0.537		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			

Matrix Spike Dup (2411035-MSD2)

Source: E403098-02

Prepared: 03/11/24 Analyzed: 03/15/24

Gasoline Range Organics (C6-C10)	61.5	20.0	50.0	ND	123	70-130	3.97	20	
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.572		0.500		114	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 4:08:19PM
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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 (2411083-BLK1)

Prepared: 03/13/24 Analyzed: 03/15/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			

LCS (2411083-BS1)

Prepared: 03/13/24 Analyzed: 03/15/24

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			

LCS Dup (2411083-BSD1)

Prepared: 03/13/24 Analyzed: 03/15/24

Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132	2.59	20	
Surrogate: n-Nonane	51.1		50.0		102	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/18/2024 4:08:19PM
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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 (2411101-BLK1)

Prepared: 03/14/24 Analyzed: 03/16/24

Chloride	ND	20.0							
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LCS (2411101-BS1)

Prepared: 03/14/24 Analyzed: 03/16/24

Chloride	253	20.0	250		101	90-110			
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LCS Dup (2411101-BSD1)

Prepared: 03/14/24 Analyzed: 03/16/24

Chloride	253	20.0	250		101	90-110	0.120	20	
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 03/18/24 16:08
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: Matador Production Company.
 Project: Abe 1 TB
 Project Manager: Ashley Giovengo
 Address: 3122 National Parks Hwy
 City, State, Zip: Carlsbad NM, 88220
 Phone: 575-988-0055
 Email: agiovengo@ensolum.com
 Report due by:

Ensolum

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

Lab Use Only
 Lab WO# E4030910 Job Number 23003-C-0001
 1D 2D 3D Standard x

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

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	Remarks
10:40	3/7/2024	Soil	1	BH01 - 0'	1							X		
10:44	3/7/2024	Soil	1	BH02 - 0'	2							X		
10:48	3/7/2024	Soil	1	BH03 - 0'	3							X		
10:42	3/7/2024	Soil	1	BH01 - 1'	4							X		
10:46	3/7/2024	Soil	1	BH02 - 1'	5							X		
10:48	3/7/2024	Soil	1	BH03 - 1'	6							X		

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

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

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 3/8/24	Time 8:01	Received by: (Signature) <i>Michelle Kuyk</i>	Date 3-8-24	Time 0801
Relinquished by: (Signature) <i>Michelle Kuyk</i>	Date 3-8-24	Time 1745	Received by: (Signature) <i>Andrew M...</i>	Date 3-8-24	Time 1745
Relinquished by: (Signature) <i>Andrew M...</i>	Date 3-8-24	Time 2400	Received by: (Signature) <i>[Signature]</i>	Date 3/11/24	Time 9:45

Lab Use Only
 Received on ice: Y N
 T1 _____ T2 _____ T3 _____
 AVG Temp °C 4

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

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



Envirotech Analytical Laboratory

Printed: 3/11/2024 1:33:10PM

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: 03/11/24 09:45 Work Order ID: E403096
Phone: (972) 371-5200 Date Logged In: 03/11/24 13:29 Logged In By: Alexa Michaels
Email: agiovnngo@ensolum.com Due Date: 03/15/24 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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for 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: Abe 1 TB

Work Order: E404119

Job Number: 23003-0001

Received: 4/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 4/19/24

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

Project Name: Abe 1 TB
Workorder: E404119
Date Received: 4/15/2024 9:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/15/2024 9:30:00AM, under the Project Name: Abe 1 TB.

The analytical test results summarized in this report with the Project Name: Abe 1 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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rainaschwanz@envirotech-inc.com

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

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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: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 04/19/24 14:45
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS10 -6"	E404119-01A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.
FS11 -6"	E404119-02A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.
FS12 -6"	E404119-03A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.
FS14 -6"	E404119-04A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.
FS15 -6"	E404119-05A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.
FS17 -6"	E404119-06A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.
FS18 -6"	E404119-07A	Soil	04/11/24	04/15/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/19/2024 2:45:45PM
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FS10 -6"

E404119-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: BA		Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.2 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: BA		Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.0 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
<i>Surrogate: n-Nonane</i>		97.4 %	50-200	04/18/24	04/18/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: IY		Batch: 2416082
Chloride	95.0	20.0	1	04/17/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/19/2024 2:45:45PM
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FS11 -6"

E404119-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.2 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.1 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2416082
Chloride	251	20.0	1	04/17/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/19/2024 2:45:45PM
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FS12 -6"

E404119-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.4 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.3 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2416082
Chloride	368	20.0	1	04/17/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/19/2024 2:45:45PM
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FS14 -6"

E404119-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.0 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.5 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2416082
Chloride	321	20.0	1	04/17/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/19/2024 2:45:45PM
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FS15 -6"
E404119-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.6 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.4 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2416082
Chloride	231	20.0	1	04/17/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/19/2024 2:45:45PM
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FS17 -6"

E404119-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.1 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.1 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2416082
Chloride	299	20.0	1	04/17/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/19/2024 2:45:45PM
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FS18 -6"

E404119-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2416023
Benzene	ND	0.0250	1	04/15/24	04/16/24	
Ethylbenzene	ND	0.0250	1	04/15/24	04/16/24	
Toluene	ND	0.0250	1	04/15/24	04/16/24	
o-Xylene	ND	0.0250	1	04/15/24	04/16/24	
p,m-Xylene	ND	0.0500	1	04/15/24	04/16/24	
Total Xylenes	ND	0.0250	1	04/15/24	04/16/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.7 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2416023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/15/24	04/16/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		87.9 %	70-130	04/15/24	04/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/18/24	
<i>Surrogate: n-Nonane</i>		118 %	50-200	04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2416082
Chloride	492	20.0	1	04/17/24	04/19/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/19/2024 2:45:45PM
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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 (2416023-BLK1)

Prepared: 04/15/24 Analyzed: 04/16/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			

LCS (2416023-BS1)

Prepared: 04/15/24 Analyzed: 04/16/24

Benzene	4.91	0.0250	5.00		98.1	70-130			
Ethylbenzene	4.85	0.0250	5.00		96.9	70-130			
Toluene	4.94	0.0250	5.00		98.9	70-130			
o-Xylene	4.91	0.0250	5.00		98.2	70-130			
p,m-Xylene	9.91	0.0500	10.0		99.1	70-130			
Total Xylenes	14.8	0.0250	15.0		98.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

Matrix Spike (2416023-MS1)

Source: E404119-06

Prepared: 04/15/24 Analyzed: 04/16/24

Benzene	4.94	0.0250	5.00	ND	98.8	54-133			
Ethylbenzene	4.87	0.0250	5.00	ND	97.3	61-133			
Toluene	4.97	0.0250	5.00	ND	99.4	61-130			
o-Xylene	4.93	0.0250	5.00	ND	98.6	63-131			
p,m-Xylene	9.96	0.0500	10.0	ND	99.6	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.3	70-130			

Matrix Spike Dup (2416023-MSD1)

Source: E404119-06

Prepared: 04/15/24 Analyzed: 04/16/24

Benzene	5.04	0.0250	5.00	ND	101	54-133	1.91	20	
Ethylbenzene	4.98	0.0250	5.00	ND	99.7	61-133	2.36	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	2.25	20	
o-Xylene	5.06	0.0250	5.00	ND	101	63-131	2.56	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	2.28	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	2.37	20	
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.7	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/19/2024 2:45:45PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2416023-BLK1)

Prepared: 04/15/24 Analyzed: 04/16/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.4	70-130			

LCS (2416023-BS2)

Prepared: 04/15/24 Analyzed: 04/16/24

Gasoline Range Organics (C6-C10)	39.8	20.0	50.0		79.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

Matrix Spike (2416023-MS2)

Source: E404119-06

Prepared: 04/15/24 Analyzed: 04/17/24

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.8	70-130			

Matrix Spike Dup (2416023-MSD2)

Source: E404119-06

Prepared: 04/15/24 Analyzed: 04/17/24

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0	ND	87.8	70-130	0.379	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/19/2024 2:45:45PM
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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 (2416091-BLK1)

Prepared: 04/18/24 Analyzed: 04/18/24

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

LCS (2416091-BS1)

Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	294	25.0	250		118	38-132			
Surrogate: <i>n-Nonane</i>	60.3		50.0		121	50-200			

Matrix Spike (2416091-MS1)

Source: E404119-03

Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: <i>n-Nonane</i>	59.3		50.0		119	50-200			

Matrix Spike Dup (2416091-MSD1)

Source: E404119-03

Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	286	25.0	250	ND	115	38-132	2.94	20	
Surrogate: <i>n-Nonane</i>	56.7		50.0		113	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/19/2024 2:45:45PM
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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 (2416082-BLK1)

Prepared: 04/17/24 Analyzed: 04/19/24

Chloride ND 20.0

LCS (2416082-BS1)

Prepared: 04/17/24 Analyzed: 04/19/24

Chloride 267 20.0 250 107 90-110

Matrix Spike (2416082-MS1)

Source: E404119-03

Prepared: 04/17/24 Analyzed: 04/19/24

Chloride 647 20.0 250 368 112 80-120

Matrix Spike Dup (2416082-MSD1)

Source: E404119-03

Prepared: 04/17/24 Analyzed: 04/19/24

Chloride 645 20.0 250 368 111 80-120 0.227 20

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 04/19/24 14:45
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Released by: Imaging 5/14/2024 2:16:02 PM

Received by: OCD: 5/14/2024 7:38:57 AM

Client: Matador Production Company		Bill To		Lab Use Only			TAT			EPA Program	
Project: Abe 1 TB		Attention: Ensolum LLC		Lab WO#			1D			CWA	
Project Manager: Ashley Giovengo		Address: on file		E 404119			2D			SDWA	
Address: 3122 National Parks Hwy		City, State, Zip:		Job Number			3D			Standard	
City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055		23003-0001			Standard			x	
Phone: 575-988-0055		Email: agiovengo@ensolum.com		Analysis and Method			RCRA				
Email: agiovengo@ensolum.com		Report due by:		TPH GRO/DRO/ORO by			State				
				8015			NM			CO	
				BTEX by 8021			UT			AZ	
				VOC by 8260			TX			TX	
				Metals 6010			Remarks				
				Chloride 300.0							
				TCEQ TPH							
				BGDOC							
				GDOC							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC	GDOC	Remarks
11:46	4/11/2024	Soil	1	FS10 - 6"	1							X		
11:47	4/11/2024	Soil	1	FS11 - 6"	2							X		
11:50	4/11/2024	Soil	1	FS12 - 6"	3							X		
11:52	4/11/2024	Soil	1	FS14 - 6"	4							X		
11:53	4/11/2024	Soil	1	FS15 - 6"	5							X		
11:55	4/11/2024	Soil	1	FS17 - 6"	6							X		
11:56	4/11/2024	Soil	1	FS18 - 6"	7							X		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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>[Signature]</i>	Date 4/12/24	Time 10:15	Received by: (Signature) <i>Michelle Gonzales</i>	Date 4-12-24	Time 1015	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 4-12-24	Time 1615	Received by: (Signature) <i>Andrew Jasso</i>	Date 4-13-24	Time 1800	
Relinquished by: (Signature) <i>Andrew Jasso</i>	Date 4-13-24	Time 2400	Received by: (Signature) <i>[Signature]</i>	Date 4/15/24	Time 930	

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.



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Envirotech Analytical Laboratory

Printed: 4/16/2024 10:49:33AM

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: 04/15/24 09:30 Work Order ID: E404119
Phone: (972) 371-5200 Date Logged In: 04/13/24 10:19 Logged In By: Angelina Pineda
Email: agiovnngo@ensolum.com Due Date: 04/19/24 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

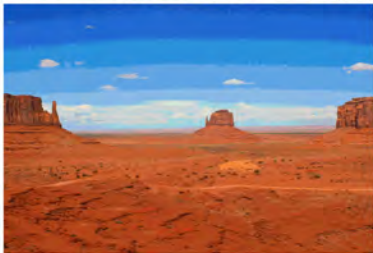
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Abe 1 TB

Work Order: E404131

Job Number: 23003-0001

Received: 4/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/22/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 4/22/24



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

Project Name: Abe 1 TB
Workorder: E404131
Date Received: 4/16/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/16/2024 8:30:00AM, under the Project Name: Abe 1 TB.

The analytical test results summarized in this report with the Project Name: Abe 1 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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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: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 04/22/24 13:25
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-1'	E404131-01A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS03-1'	E404131-02A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS04-1'	E404131-03A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS05-1'	E404131-04A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS08-1'	E404131-05A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS09-1'	E404131-06A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS13-1'	E404131-07A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS16-1'	E404131-08A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS19-1'	E404131-09A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS20-1'	E404131-10A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS21-1'	E404131-11A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS22-1'	E404131-12A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS23-1'	E404131-13A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS24-1'	E404131-14A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS25-1'	E404131-15A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS26-1'	E404131-16A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS27-1'	E404131-17A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS28-1'	E404131-18A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.
FS29-1'	E404131-19A	Soil	04/12/24	04/16/24	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS01-1'

E404131-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2416058	
Benzene	ND	0.0250	1	04/16/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/18/24	
Toluene	ND	0.0250	1	04/16/24	04/18/24	
o-Xylene	ND	0.0250	1	04/16/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.6 %	70-130	04/16/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2416058	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.3 %	70-130	04/16/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2416094	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>						
		86.7 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2416101	
Chloride	308	20.0	1	04/18/24	04/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS03-1'

E404131-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/18/24	
Toluene	ND	0.0250	1	04/16/24	04/18/24	
o-Xylene	ND	0.0250	1	04/16/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/18/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.4 %	70-130	04/16/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/18/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.8 %	70-130	04/16/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		84.0 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	92.8	20.0	1	04/18/24	04/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS04-1'

E404131-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.4 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.7 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		82.7 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	27.6	20.0	1	04/18/24	04/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS05-1'

E404131-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.5 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.0 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		84.5 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	31.1	20.0	1	04/18/24	04/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS08-1'

E404131-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.5 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.3 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		95.1 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	74.0	20.0	1	04/18/24	04/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS09-1'

E404131-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.2 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		98.5 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	34.3	20.0	1	04/18/24	04/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS13-1'

E404131-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.0 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.4 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		98.1 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	ND	20.0	1	04/18/24	04/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS16-1'

E404131-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.8 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.4 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	121	20.0	1	04/18/24	04/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS19-1'

E404131-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.1 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		97.8 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	27.0	20.0	1	04/18/24	04/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS20-1'

E404131-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.6 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.5 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		93.9 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	45.2	20.0	1	04/18/24	04/18/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS21-1'

E404131-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.4 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.2 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		95.4 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	34.9	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS22-1'

E404131-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.3 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.5 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	52.1	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS23-1'

E404131-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.3 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		86.5 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	44.1	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS24-1'

E404131-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.1 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.3 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		92.7 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	72.7	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS25-1'

E404131-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.5 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.0 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		88.8 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	49.2	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS26-1'

E404131-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.4 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.8 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		94.3 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	37.2	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS27-1'

E404131-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.0 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.9 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		97.8 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	28.9	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS28-1'

E404131-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.7 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.1 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		100 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	41.2	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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FS29-1'

E404131-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Benzene	ND	0.0250	1	04/16/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/16/24	04/19/24	
Toluene	ND	0.0250	1	04/16/24	04/19/24	
o-Xylene	ND	0.0250	1	04/16/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/16/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/16/24	04/19/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.4 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416058
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/16/24	04/19/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.5 %	70-130	04/16/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416094
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		94.5 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: WF		Batch: 2416101
Chloride	92.1	20.0	1	04/18/24	04/19/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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Volatile Organics by EPA 8021B

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 (2416058-BLK1)

Prepared: 04/16/24 Analyzed: 04/18/24

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	7.19		8.00		89.9	70-130			

LCS (2416058-BS1)

Prepared: 04/16/24 Analyzed: 04/18/24

Benzene	5.01	0.0250	5.00		100	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.05	0.0250	5.00		101	70-130			
o-Xylene	5.02	0.0250	5.00		100	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.23		8.00		90.4	70-130			

Matrix Spike (2416058-MS1)

Source: E404131-02

Prepared: 04/16/24 Analyzed: 04/18/24

Benzene	4.96	0.0250	5.00	ND	99.3	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	5.00	0.0250	5.00	ND	99.9	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	7.23		8.00		90.4	70-130			

Matrix Spike Dup (2416058-MSD1)

Source: E404131-02

Prepared: 04/16/24 Analyzed: 04/18/24

Benzene	5.07	0.0250	5.00	ND	101	54-133	2.09	20	
Ethylbenzene	5.17	0.0250	5.00	ND	103	61-133	2.11	20	
Toluene	5.13	0.0250	5.00	ND	103	61-130	2.24	20	
o-Xylene	5.12	0.0250	5.00	ND	102	63-131	2.36	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	2.13	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	2.21	20	
Surrogate: 4-Bromochlorobenzene-PID	7.35		8.00		91.9	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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Nonhalogenated Organics by EPA 8015D - GRO

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 (2416058-BLK1)

Prepared: 04/16/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

LCS (2416058-BS2)

Prepared: 04/16/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.8	70-130			

Matrix Spike (2416058-MS2)

Source: E404131-02

Prepared: 04/16/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	81.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

Matrix Spike Dup (2416058-MSD2)

Source: E404131-02

Prepared: 04/16/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	41.5	20.0	50.0	ND	82.9	70-130	1.19	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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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 (2416094-BLK1)

Prepared: 04/18/24 Analyzed: 04/19/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.4		50.0		98.9	50-200			

LCS (2416094-BS1)

Prepared: 04/18/24 Analyzed: 04/19/24

Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
Surrogate: n-Nonane	48.4		50.0		96.7	50-200			

Matrix Spike (2416094-MS1)

Source: E404131-05

Prepared: 04/18/24 Analyzed: 04/19/24

Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	52.6		50.0		105	50-200			

Matrix Spike Dup (2416094-MSD1)

Source: E404131-05

Prepared: 04/18/24 Analyzed: 04/19/24

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132	1.15	20	
Surrogate: n-Nonane	52.7		50.0		105	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:25:57PM
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Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416101-BLK1)

Prepared: 04/18/24 Analyzed: 04/18/24

Chloride	ND	20.0							
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LCS (2416101-BS1)

Prepared: 04/18/24 Analyzed: 04/18/24

Chloride	253	20.0	250		101	90-110			
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Matrix Spike (2416101-MS1)

Source: E404131-07

Prepared: 04/18/24 Analyzed: 04/18/24

Chloride	265	20.0	250	ND	106	80-120			
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Matrix Spike Dup (2416101-MSD1)

Source: E404131-07

Prepared: 04/18/24 Analyzed: 04/18/24

Chloride	262	20.0	250	ND	105	80-120	1.35	20	
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QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-0001 Project Manager: Ashley Giovengo	Reported: 04/22/24 13:25
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: Matador Production Company		Bill To		Lab Use Only			TAT		EPA Program				
Project: Abe 1 TB		Attention: Ensolum LLC		Lab WO#	Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo		Address: on file		E404131	23003-0001					x			
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method								RCRA	
City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State	
Phone: 575-988-0055		Email: agiovengo@ensolum.com										NM	CO
Email: agiovengo@ensolum.com		Report due by:										x	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	Remarks
13:49	4/12/2024	Soil	1	FS01 - 1'	1							X		
13:29	4/12/2024	Soil	1	FS03 - 1'	2							X		
13:22	4/12/2024	Soil	1	FS04 - 1'	3							X		
13:20	4/12/2024	Soil	1	FS05 - 1'	4							X		
11:03	4/12/2024	Soil	1	FS08 - 1'	5							X		
11:00	4/12/2024	Soil	1	FS09 - 1'	6							X		
11:07	4/12/2024	Soil	1	FS13 - 1'	7							X		
11:10	4/12/2024	Soil	1	FS16 - 1'	8							X		
13:22	4/12/2024	Soil	1	FS19 - 1'	9							X		
13:25	4/12/2024	Soil	1	FS20 - 1'	10							X		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. 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 <u>4</u>
<i>[Signature]</i>	4/15/24	9:45	Michelle Gonzales	4-15-24	0945	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Michelle Gonzales	4-15-24	1620	J.M.	4.15.24	1800	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
J.M.	4.15.24	2400	[Signature]	4/16/24	830	

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: Abe 1 TB		Attention: Ensolum LLC		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo		Address: on file		E404131		23003-0001					x		
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method									RCRA
City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State	
Phone: 575-988-0055		Email: agiovengo@ensolum.com										NM	CO
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	TCEQ TPH	BGDOC NM	GDOC TX	Remarks
13:27	4/12/2024	Soil	1	FS21 - 1'	11							X		
11:12	4/12/2024	Soil	1	FS22 - 1'	12							X		
11:14	4/12/2024	Soil	1	FS23 - 1'	13							X		
11:16	4/12/2024	Soil	1	FS24 - 1'	14							X		
11:18	4/12/2024	Soil	1	FS25 - 1'	15							X		
11:20	4/12/2024	Soil	1	FS26 - 1'	16							X		
13:13	4/12/2024	Soil	1	FS27 - 1'	17							X		
12:27	4/12/2024	Soil	1	FS28 - 1'	18							X		
12:30	4/12/2024	Soil	1	FS29 - 1'	19							X		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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 Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>[Signature]</i>	4/15/24	9:45	Michelle Gonzales	4-15-24	0945	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	4-15-24	11:20	<i>[Signature]</i>	4.15.24	1800	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	4.15.24	2400	<i>[Signature]</i>	4/16/24	830	

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: 4/16/2024 1:48:26PM

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: 04/16/24 08:30 Work Order ID: E404131
Phone: (972) 371-5200 Date Logged In: 04/16/24 09:09 Logged In By: Alexa Michaels
Email: agiovnngo@ensolum.com Due Date: 04/22/24 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for 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: Abe 1 TB

Work Order: E404140

Job Number: 23003-C-0001

Received: 4/17/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/22/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 4/22/24

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

Project Name: Abe 1 TB
Workorder: E404140
Date Received: 4/17/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/17/2024 8:00:00AM, under the Project Name: Abe 1 TB.

The analytical test results summarized in this report with the Project Name: Abe 1 TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 04/22/24 13:29
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02 - 1.5'	E404140-01A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
FS06 - 1.5'	E404140-02A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
FS07 - 1.5'	E404140-03A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SW01 - 1'	E404140-04A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SW02 - 1'	E404140-05A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SW03 - 1'	E404140-06A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:29:25PM
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FS02 - 1.5'

E404140-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RKS		Batch: 2416059
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	04/17/24	04/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %	70-130	04/17/24	04/17/24	
<i>Surrogate: Toluene-d8</i>		98.2 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2416059
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
<i>Surrogate: Bromofluorobenzene</i>		99.5 %	70-130	04/17/24	04/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %	70-130	04/17/24	04/17/24	
<i>Surrogate: Toluene-d8</i>		98.2 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		117 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: IY		Batch: 2416084
Chloride	76.5	20.0	1	04/17/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:29:25PM
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FS06 - 1.5'

E404140-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	mg/kg	Analyst: RKS		Batch: 2416059
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	04/17/24	04/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	04/17/24	04/17/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2416059
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	04/17/24	04/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	04/17/24	04/17/24	
<i>Surrogate: Toluene-d8</i>		100 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: IY		Batch: 2416084
Chloride	87.2	20.0	1	04/17/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:29:25PM
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FS07 - 1.5'

E404140-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416059
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	04/17/24	04/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	04/17/24	04/17/24	
<i>Surrogate: Toluene-d8</i>		99.0 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2416059
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	04/17/24	04/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	04/17/24	04/17/24	
<i>Surrogate: Toluene-d8</i>		99.0 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2416084
Chloride	52.4	20.0	1	04/17/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:29:25PM
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SW01 - 1'

E404140-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416059
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	04/17/24	04/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	04/17/24	04/17/24	
<i>Surrogate: Toluene-d8</i>		99.6 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416059
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
<i>Surrogate: Bromofluorobenzene</i>		102 %	70-130	04/17/24	04/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	04/17/24	04/17/24	
<i>Surrogate: Toluene-d8</i>		99.6 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		110 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2416084
Chloride	163	20.0	1	04/17/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:29:25PM
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SW02 - 1'

E404140-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416059
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	04/17/24	04/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	04/17/24	04/17/24	
<i>Surrogate: Toluene-d8</i>		99.3 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416059
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	04/17/24	04/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	04/17/24	04/17/24	
<i>Surrogate: Toluene-d8</i>		99.3 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		112 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2416084
Chloride	65.0	20.0	1	04/17/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:29:25PM
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SW03 - 1'

E404140-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2416059
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
<i>Surrogate: Bromofluorobenzene</i>		99.8 %	70-130	04/17/24	04/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %	70-130	04/17/24	04/17/24	
<i>Surrogate: Toluene-d8</i>		97.9 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2416059
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
<i>Surrogate: Bromofluorobenzene</i>		99.8 %	70-130	04/17/24	04/17/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %	70-130	04/17/24	04/17/24	
<i>Surrogate: Toluene-d8</i>		97.9 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2416091
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
<i>Surrogate: n-Nonane</i>		119 %	50-200	04/18/24	04/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2416084
Chloride	83.4	20.0	1	04/17/24	04/20/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:29:25PM
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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 (2416059-BLK1)

Prepared: 04/16/24 Analyzed: 04/17/24

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	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

LCS (2416059-BS1)

Prepared: 04/16/24 Analyzed: 04/17/24

Benzene	2.75	0.0250	2.50		110	70-130			
Ethylbenzene	2.62	0.0250	2.50		105	70-130			
Toluene	2.54	0.0250	2.50		102	70-130			
o-Xylene	2.60	0.0250	2.50		104	70-130			
p,m-Xylene	5.08	0.0500	5.00		102	70-130			
Total Xylenes	7.67	0.0250	7.50		102	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

Matrix Spike (2416059-MS1)

Source: E404135-02

Prepared: 04/16/24 Analyzed: 04/17/24

Benzene	2.72	0.0250	2.50	ND	109	48-131			
Ethylbenzene	2.59	0.0250	2.50	ND	103	45-135			
Toluene	2.51	0.0250	2.50	ND	100	48-130			
o-Xylene	2.63	0.0250	2.50	ND	105	43-135			
p,m-Xylene	5.11	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.74	0.0250	7.50	ND	103	43-135			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

Matrix Spike Dup (2416059-MSD1)

Source: E404135-02

Prepared: 04/16/24 Analyzed: 04/17/24

Benzene	2.80	0.0250	2.50	ND	112	48-131	2.90	23	
Ethylbenzene	2.69	0.0250	2.50	ND	107	45-135	3.83	27	
Toluene	2.60	0.0250	2.50	ND	104	48-130	3.60	24	
o-Xylene	2.75	0.0250	2.50	ND	110	43-135	4.53	27	
p,m-Xylene	5.37	0.0500	5.00	ND	107	43-135	5.03	27	
Total Xylenes	8.13	0.0250	7.50	ND	108	43-135	4.86	27	
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:29:25PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416059-BLK1)

Prepared: 04/16/24 Analyzed: 04/17/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

LCS (2416059-BS2)

Prepared: 04/16/24 Analyzed: 04/17/24

Gasoline Range Organics (C6-C10)	58.4	20.0	50.0		117	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	0.503		0.500		101	70-130			

Matrix Spike (2416059-MS2)

Source: E404135-02

Prepared: 04/16/24 Analyzed: 04/17/24

Gasoline Range Organics (C6-C10)	57.3	20.0	50.0	ND	115	70-130			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike Dup (2416059-MSD2)

Source: E404135-02

Prepared: 04/16/24 Analyzed: 04/17/24

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130	2.79	20	
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:29:25PM
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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 (2416091-BLK1)

Prepared: 04/18/24 Analyzed: 04/18/24

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

LCS (2416091-BS1)

Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	294	25.0	250		118	38-132			
Surrogate: <i>n</i> -Nonane	60.3		50.0		121	50-200			

Matrix Spike (2416091-MS1)

Source: E404119-03

Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: <i>n</i> -Nonane	59.3		50.0		119	50-200			

Matrix Spike Dup (2416091-MSD1)

Source: E404119-03

Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	286	25.0	250	ND	115	38-132	2.94	20	
Surrogate: <i>n</i> -Nonane	56.7		50.0		113	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:29:25PM
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Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416084-BLK1)

Prepared: 04/17/24 Analyzed: 04/19/24

Chloride ND 20.0

LCS (2416084-BS1)

Prepared: 04/17/24 Analyzed: 04/19/24

Chloride 255 20.0 250 102 90-110

Matrix Spike (2416084-MS1)

Source: E404135-05

Prepared: 04/17/24 Analyzed: 04/19/24

Chloride 248 20.0 250 ND 99.4 80-120

Matrix Spike Dup (2416084-MSD1)

Source: E404135-05

Prepared: 04/17/24 Analyzed: 04/19/24

Chloride 252 20.0 250 ND 101 80-120 1.51 20

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Abe 1 TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 04/22/24 13:29
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Released to Imaging - 5/20/2024 2:16:02 PM

Received by OCD: 5/14/2024 7:38:57 AM

Client: Matador Production Company		Bill To		Lab Use Only			TAT			EPA Program			
Project: Abe 1 TB		Attention: Ensolum LLC		Lab WO#	Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo		Address: on file		E 404140		23009-0001					x		
Address: 3122 National Parks Hwy		City, State, Zip:		Analysis and Method									
City, State, Zip: Carlsbad NM, 88220		Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	RCRA	
Email: agiovengo@ensolum.com		Email: agiovengo@ensolum.com										State	
Report due by:				NM		CO		UT		AZ		TX	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	Remarks
10:31	4/15/2024	Soil	1	FS02 - 1.5'	1							X		
10:30	4/15/2024	Soil	1	FS06 - 1.5'	2							X		
10:28	4/15/2024	Soil	1	FS07 - 1.5'	3							X		
10:40	4/15/2024	Soil	1	SW01 - 1'	4							X		
11:05	4/15/2024	Soil	1	SW02 - 1'	5							X		
11:07	4/15/2024	Soil	1	SW03 - 1'	6							X		

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

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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>Sally Bern</i>	Date 4-16-24	Time 1115	Received by: (Signature) <i>Michelle Gonzales</i>	Date 4-16-24	Time 1115	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 4-16-24	Time 1630	Received by: (Signature) <i>Andrew J. Haddo</i>	Date 4-16-24	Time 1800	
Relinquished by: (Signature) <i>Andrew J. Haddo</i>	Date 4-16-24	Time 2400	Received by: (Signature) <i>AG</i>	Date 4/17/24	Time 0800	

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

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



Page 125 of 140

Envirotech Analytical Laboratory

Printed: 4/17/2024 10:38:34AM

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: 04/17/24 08:00 Work Order ID: E404140
Phone: (972) 371-5200 Date Logged In: 04/16/24 16:28 Logged In By: Jessica Liesse
Email: agiovngo@ensolum.com Due Date: 04/23/24 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Empty box for Client Instruction

Comments/Resolution

Large empty box for Comments/Resolution

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

Date



envirotech Inc.

[The main body of the page contains extremely faint and illegible text, likely bleed-through from the reverse side of the document. The text is too light to transcribe accurately.]



APPENDIX F

Email Correspondence

From: [Jason Touchet](#)
To: [Ashley Giovengo](#)
Cc: [Clinton Talley](#)
Subject: 48-hour Confirmation Sampling Notification Email - ABE 1 - nAPP2406265359 for Dates 4/11, 4/12, 4/15
Date: Friday, April 12, 2024 10:39:58 AM

[**EXTERNAL EMAIL**]

****EXTERNAL EMAIL****

To whom it may concern (c/o Jason Touchet for MATADOR PRODUCTION COMPANY),
The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2406265359.

The sampling event is expected to take place:

When: 04/11/2024 @ 09:00

Where: L-28-21S-33E 0 FNL 0 FEL (32.44503,-103.57516)

Additional Information: Off-pad area on the NE corner of the location.

Additional Instructions: (32.44503, -103.57516)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **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.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

****EXTERNAL EMAIL****

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New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

Thanks,

Jason Touchet

EHS Field Technician

Matador Resources Company

Cell: 337-652-3463

Email: jason.touchet@matadorresources.com

This message is strictly confidential and is for the sole use of the intended recipient. If you are not the intended recipient of this message, you may not disclose, print, copy, disseminate or otherwise use this message or the information included herein. If you are not the intended recipient, please reply and notify the sender (only) and promptly delete the message.

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

QUESTIONS

Action 343603

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406265359
Incident Name	NAPP2406265359 ABE 1 TB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	ABE 1 TB
Date Release Discovered	03/02/2024
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Normal Operations Pipeline (Any) Produced Water Released: 21 BBL Recovered: 0 BBL Lost: 21 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 343603

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

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: 05/14/2024
--	--

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QUESTIONS, Page 3

Action 343603

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 500 and 1000 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<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)	4480
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
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	04/15/2024
On what date will (or did) the final sampling or liner inspection occur	04/08/2024
On what date will (or was) the remediation complete(d)	04/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	5617
What is the estimated volume (in cubic yards) that will be reclaimed	320
What is the estimated surface area (in square feet) that will be remediated	5617
What is the estimated volume (in cubic yards) that will be remediated	320

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 343603

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	R360
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 05/14/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 343603

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	No

District I
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QUESTIONS, Page 6

Action 343603

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	332925
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/15/2024
What was the (estimated) number of samples that were to be gathered	31
What was the sampling surface area in square feet	5617

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5617
What was the total volume (cubic yards) remediated	320
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	5617
What was the total volume (in cubic yards) reclaimed	320
Summarize any additional remediation activities not included by answers (above)	N/A

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I 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.

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 05/14/2024
--	--

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

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

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

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

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

QUESTIONS, Page 7

Action 343603

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	No
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CONDITIONS

Action 343603

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 343603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2406265359 ABE 1 TB, thank you. This Remediation Closure Report is approved. The Site Assessment/Characterization is incorrect. The site is located in a "Freshwater Emergent Wetland" and needed to be remediated to the strictest closure criteria. Just something to keep your eye on in the future.	5/20/2024