



May 29, 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
Voni West TB
Incident Number nAPP2406051763
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the Voni West TB (Site). 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 onto the well pad. Based on field observations, field screening activities, and soil sample 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 nAPP2406051763.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit E, Section 21, Township 26 South, Range 31 East, in Eddy County, New Mexico (32.03498°, -103.78557°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 29, 2024, an equipment failure on a separator occurred, resulting in the release of approximately 9 barrels (bbls) of produced water onto the pad. A vacuum truck successfully recovered all 2 bbls of produced water. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via on the NMOCD Portal February 29, 2024, and submitted a Release Notification Form C-141 (Form C-141) on March 7, 2024. The release was assigned Incident Number nAPP2406051763. The Form C-141 can be referenced on the NMOCD Portal.

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 page 3 of the Form C-141, Site Assessment/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, C-4769 POD1, located approximately 0.36 miles east of the Site. The well had a reported depth to groundwater greater than 101 feet below ground surface (bgs) and a total

depth of 101 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 wetland area, located approximately 3,168 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On March 1, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four preliminary soil samples (SS01 through SS04) were collected around the release extent at a depth of approximately 0 feet bgs to assess the lateral extent of the release. The preliminary soil samples were field screened for chloride and TPH utilizing HACH® Chloride Quantab® test strips and a PetroFLAG® Soil Analyzer System, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

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.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On March 20, 2024, Ensolum personnel were at the Site to oversee vertical delineation activities. Boreholes were advanced via hand auger within the release extent to assess the vertical extent of the release. Borehole BH01 was advanced to a depth of 2 feet bgs and boreholes BH02 and BH03 were advanced to a depth of 1-foot bgs. Delineation soil samples were collected from each borehole at depths ranging from 0 feet to 2 feet bgs. Soil from the delineation boreholes were field screened for chloride and TPH. 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.

Laboratory analytical results for all surficial delineation soil samples indicated COC concentrations for BTEX, GRO+DRO, and Total TPH exceeded the Closure Criteria; however, laboratory analytical results for delineation soil samples BH01, BH02, and BH03 at 1-foot, 0.5 feet, and 0.5 feet bgs, respectively, indicated all COC concentrations were compliant with the Site Closure Criteria and the reclamation requirement. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix D.

Starting on April 14, 2024, impacted soil was excavated via surface scrape from the release area as indicated by visible staining, field screening activities, and laboratory analytical results for delineation soil samples. Excavation activities were performed using a backhoe, hand digging, and belly dump trucks. The excavation occurred on the north side of the tank pad between a steel pipe rack, a produced water line riser and around five horizontal separators. To direct excavation activities, Ensolum personnel screened soil for TPH and chloride.

Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing at least 200 square feet from the floor of the scrape. 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 FS34 were collected from the floor of the excavation just beneath the scraped surface (0 feet bgs). The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 6,680 square feet. A total of approximately 60 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation floor soil samples FS01 through FS267 indicated all COC concentrations were compliant with the Site Closure Criteria and with the reclamation requirement. Excavation floor sample FS27 exceeded the Site Closure Criteria for TPH at ground surface and was further excavated on March 17, 2024, and resubmitted to the analytical laboratory. Excavation floor sample FS27 was compliant with the Site Closure Criteria at 0.5 feet bgs. Laboratory analytical results are summarized in Tables 1 and 2 and the complete laboratory analytical reports are included as Appendix E.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 2024 release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were in compliance with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Excavation of impacted and waste-containing soil has mitigated adverse conditions at this Site. Depth to groundwater has been estimated to be greater than 101 feet bgs and no other sensitive receptors were identified near the release extent. Matador believes these remedial actions are protective of human health, the environment, and groundwater. As such, Matador respectfully requests closure for Incident Number nAPP2406051763.

Voni West TB



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 "CHAD HAMILTON".

Chad Hamilton
Staff Geologist

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

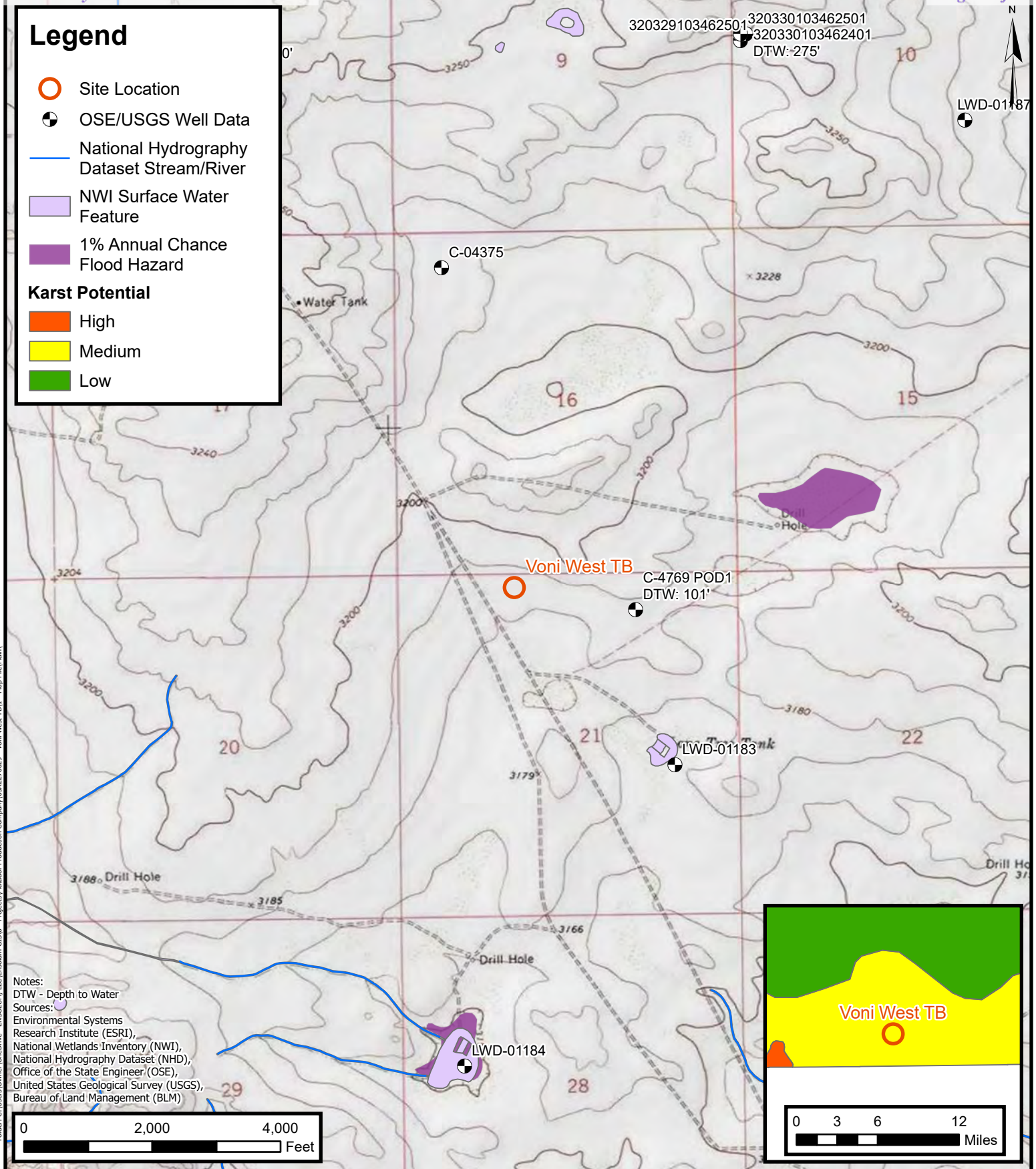
Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Soil Samples)
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications



FIGURES





ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Site Receptor Map

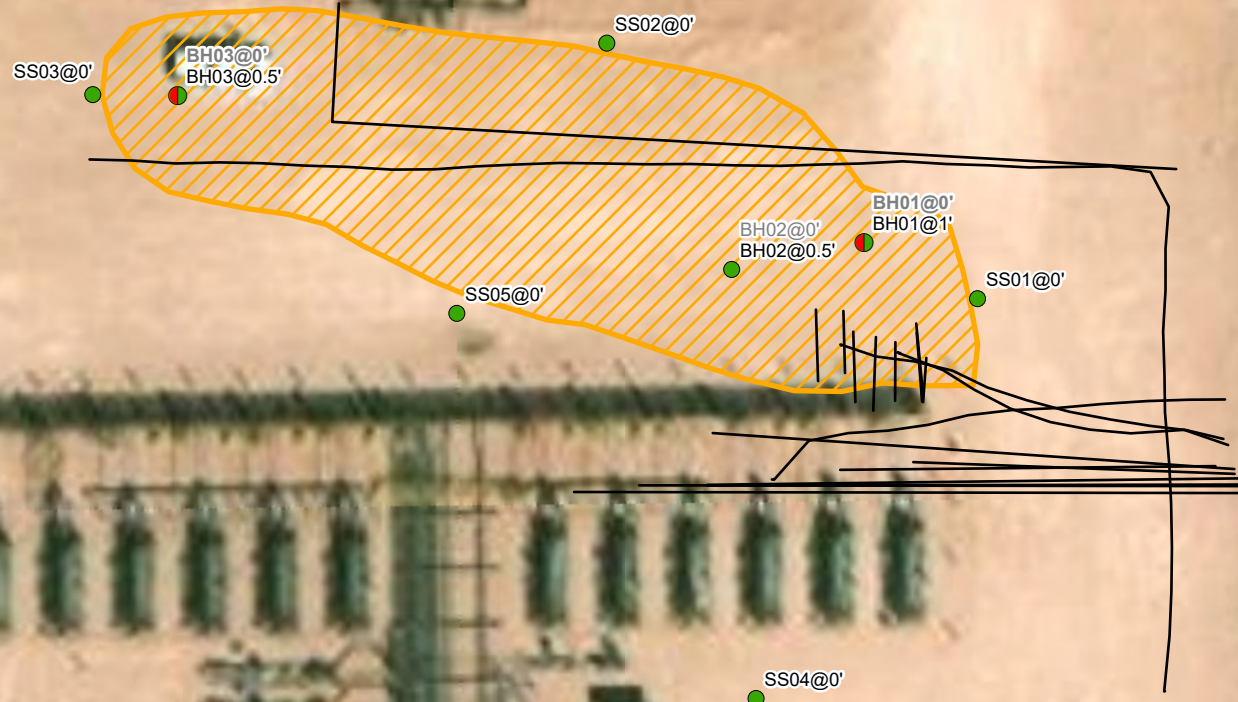
Matador Production Company
Voni West TB
Incident Number: nAPP2406051763
Unit E, Section 21, T 26S, R 31E
Eddy County, New Mexico

FIGURE

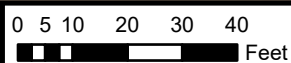
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Infrastructure Lines
- ▨ Release Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



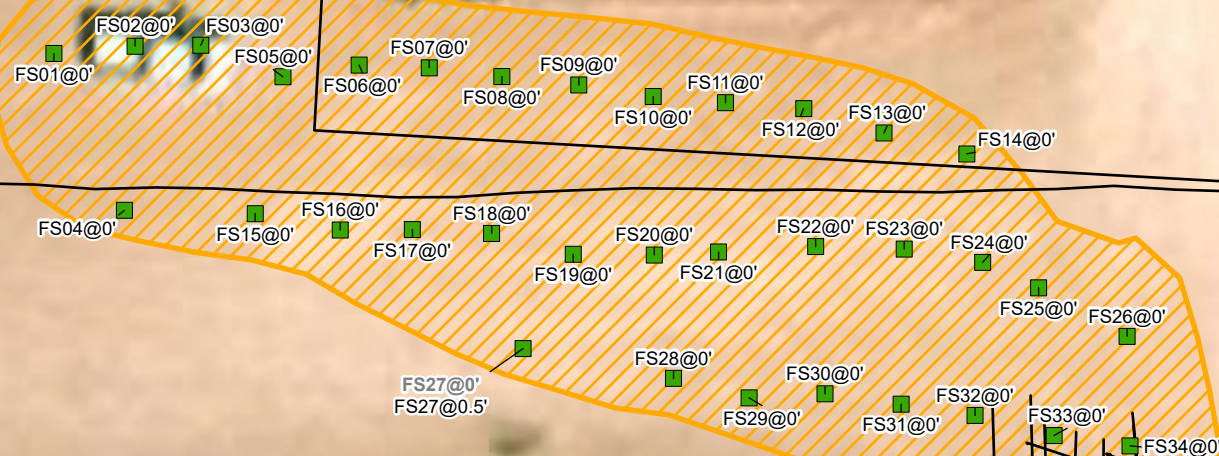
Delineation Soil Sample Locations

Matador Production Company
Voni West TB
Incident Number: nAPP2406051763
Unit E, Section 21, T 26S, R 31E
Eddy County, New Mexico

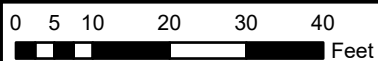
FIGURE
2

Legend

- Confirmation Soil Sample in Compliance with Closure Criteria
- Infrastructure Lines
- Release Extent



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



Sources: Environmental Systems Research Institute (ESRI)

**Confirmation Soil Sample Locations**

Matador Production Company
 Voni West TB
 Incident Number: nAPP2406051763
 Unit E, Section 21, T 26S, R 31E
 Eddy County, New Mexico

FIGURE**3**



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS

Voni West TB
Matador Production Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	3/1/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	97.4
SS02	3/1/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS03	3/1/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	21.5
SS04	3/1/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	48.3
SS05	3/20/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	121
BH01	3/20/2024	0	0.202	76.702	589	5,710	165	6,299	6,464	7,210
BH01	3/20/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	25.6
BH02	3/20/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,340
BH02	3/20/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
BH03	3/20/2024	0	<0.0250	0.1654	<20.0	4,240	7,000	4,240	11,240	71.5
BH03	3/20/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	21.4

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
 Voni West TB
 Matador Production Company
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples										
FS01	4/15/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
FS02	4/15/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
FS03	4/15/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
FS04	4/15/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	40.2
FS05	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
FS06	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
FS07	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	632
FS08	4/16/2024	0	<0.0250	<0.0250	<20.0	69.6	<50.0	69.6	69.6	622
FS09	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	27.4
FS10	4/16/2024	0	<0.0250	<0.0250	<20.0	176	<50.0	176	176	59.0
FS11	4/16/2024	0	<0.0250	<0.0250	<20.0	79.4	<50.0	79.4	79.4	49.7
FS12	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
FS13	4/16/2024	0	<0.0250	<0.0250	<20.0	39.9	<50.0	39.9	39.9	621
FS14	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	1,150
FS15	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
FS16	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	54.8
FS17	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	42.3
FS18	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0
FS19	4/16/2024	0	<0.0250	<0.0250	<20.0	650	<50.0	650	650	44.1
FS20	4/16/2024	0	<0.0250	<0.0250	<20.0	97.5	<50.0	97.5	97.5	31.5
FS21	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	71.0



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS - Continued
 Voni West TB
 Matador Production Company
 Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples (cont.)										
FS22	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	20.7
FS23	4/16/2024	0	<0.0250	<0.0250	<20.0	47.1	<50.0	47.1	47.1	1,560
FS24	4/16/2024	0	<0.0250	<0.0250	<20.0	43.6	<50.0	43.6	43.6	2,170
FS25	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	389
FS26	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	421
FS27	4/16/2024	0	<0.0250	<0.0250	<20.0	1,130	<50.0	1,130	1,130	66.5
FS27	5/17/2024	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	43.3
FS28	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	36.6
FS29	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	147
FS30	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	976
FS31	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	236
FS32	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	548
FS33	4/16/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	424
FS34	4/16/2024	0	<0.0250	<0.0250	<20.0	26.8	<50.0	26.8	26.8	438

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Referenced Well Records



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

September 13, 2023

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4769Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4769 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

OSE DII SEP 14 2023 PM 2:40



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4769			
	WELL OWNER NAME(S) Matador Production Company				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 5400 Lyndon B Johnson Fwy Suite 1500				CITY Dallas	STATE TX	ZIP 75240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 2	SECONDS 1.66	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	46	46.92	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NW NE Sec. 21 T26S R31E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 09/08/2023	DRILLING ENDED 09/08/2023	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±101	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 9/13/2023	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 101		±6.25	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FOR OSE INTERNAL USE

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

	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					
4. HYDROGEOLOGIC LOG OF WELL	0	4	4	Sand, fine-grained, poorly graded, unconsolidated, dark brown	Y ✓ N		
	4	20	16	Caliche, consolidated, fine-grained sand, white/ tan	Y ✓ N		
	20	65	45	Sand, fine-grained, poorly graded, unconsolidated, tan	Y ✓ N		
	65	80	15	Gravel, (0.5"), sub rounded, with fine-grained sand, light brown	Y ✓ N		
	80	90	10	Sand, fine-grained, with gravel (0.25") sub-rounded, light brown	Y ✓ N		
	90	101	11	Sand, fine-grained, poorly graded, unconsolidated, dark brown	Y ✓ N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):	0.00
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.							
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt							
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:						
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME			DATE			

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4769- POD-1

Well owner: Matador Production Company

Phone No.: 337-319-8398

Mailing address: 5400 Lyndon B Johnson Fwy Suite 1500

City: Dallas State: Texas Zip code: 75240

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cameron Pruitt
- 4) Date well plugging began: 09/12/2023 Date well plugging concluded: 09/12/2023
- 5) GPS Well Location: Latitude: 32 deg, 2 min, 1.66 sec
Longitude: 103 deg, 46 min, 46.92 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 101 ft below ground level (bgl),
by the following manner: water level probe
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 09/01/2023
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE DIT SEP 14 2023 PM 2:40

- For each interval plugged, describe within the following columns:**

USE DU SEP 14 2023 PM 2:40

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

9/13/2023

Date _____






WR-20 Well Record and Log-packet-forsign

Final Audit Report

2023-09-13

Created:	2023-09-13
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA914YOThcZ6aUF6b7ZuFDIABkPmUK-QM_

"WR-20 Well Record and Log-packet-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2023-09-13 - 8:05:20 PM GMT- IP address: 24.40.85.191
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2023-09-13 - 8:05:56 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2023-09-13 - 8:49:20 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2023-09-13 - 8:52:34 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2023-09-13 - 8:52:34 PM GMT

07:40 PM SEP 14 2023



APPENDIX B

Photographic Log



Photographic Log

Matador Production Company

Voni West TB

nAPP2406051763



Photograph 1
Description: Lease Signage
View: South

Date: 3/1/2024



Photograph 2
Description: Release Area
View: East

Date: 3/1/2024



Photograph 3
Description: Release Area
View: East

Date: 3/1/2024



Photograph 4
Description: Release Area
View: West

Date: 3/1/2024



Photographic Log

Matador Production Company

Voni West TB

nAPP2406051763



Photograph 5
Description: Release Area
View: North

Date: 3/1/2024



Photograph 6
Description: Release Area
View: East

Date: 3/1/2024



Photograph 7
Description: Vertical Delineation
View: South

Date: 3/20/2024



Photograph 8
Description: Vertical Delineation
View: East

Date: 3/20/2024



Photographic Log

Matador Production Company

Voni West TB

nAPP2406051763



Photograph 9

Date: 3/14/2024

Description: Vertical Delineation

View: East

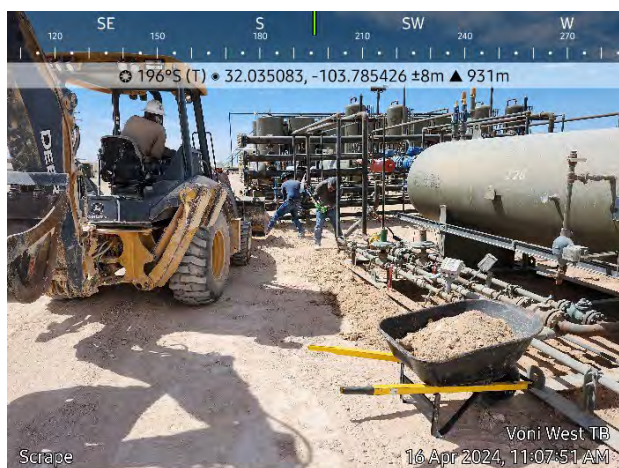


Photograph 10

Date: 4/16/2024

Description: Excavation Activities

View: West



Photograph 11

Date: 4/16/2024

Description: Excavation Activities

View: South



Photograph 12

Date: 4/16/2024

Description: Excavation Activities

View: West



Photographic Log

Matador Production Company

Voni West TB

nAPP2406051763



Photograph 9

Date: 4/16/2024

Description: Excavation Area

View: North



Photograph 10

Date: 4/16/2024

Description: Excavation Area

View: West



Photograph 11

Date: 4/16/2024

Description: Excavation Area

View: Southwest



Photograph 12

Date: 4/16/2024


Description: Excavation Area


View: Southeast




APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01		Date: 03/20/2024	
								Site Name: Voni West TB			
								Incident Number: nAPP2406051763			
								Job Number: 03A2270032			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Hand Auger	
Coordinates: 32.03498, -103.78553								Hole Diameter: 3"		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	8,574		Y	BH01	0	0	CCHE	Caliche Pad			
D	633			BH01	0.5	0.5	CCHE	Caliche - Mostly white to tan caliche sand and gravel, with some light to med brown silica sand, dry, noncohesive, non-plastic			
D	ND			BH01	1	1	CCHE	Caliche - Mostly white to tan caliche sand and gravel, with some light to med brown silica sand, dry, noncohesive, non-plastic			
D	ND	17		BH01	2	2	CCHE	Caliche - Mostly white to tan caliche sand and gravel, with some light to med brown silica sand, dry, noncohesive, non-plastic			
Total Depth @ 2 ft bgs.											

								Sample Name: BH02		Date: 03/20/2024	
								Site Name: Voni West TB			
								Incident Number: nAPP2406051763			
								Job Number: 03A2270032			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Hand Auger	
Coordinates: 32.03497, -103.78561								Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	1,562		Y	BH02	0	0	CCHE	Caliche Pad			
D	ND			BH02	0.5	0.5	CCHE	Caliche - Mostly white to tan caliche sand and gravel, with some light to med brown silica sand, dry, noncohesive, non-plastic			
D	ND	14		BH02	1	1	CCHE	Caliche - Mostly white to tan caliche sand and gravel, with some light to med brown silica sand, dry, noncohesive, non-plastic			
Total Depth @ 1 ft bgs.											

								Sample Name: BH03		Date: 03/20/2024	
								Site Name: Voni West TB			
								Incident Number: nAPP2406051763			
								Job Number: 03A2270032			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Hand Auger	
Coordinates: 32.03506, -103.78594								Hole Diameter: 3"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFLAG for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	2,901		N	BH03	0	0	CCHE	Caliche Pad			
D	ND		N	BH03	0.5	0.5	CCHE	Caliche - Mostly white to tan caliche sand and gravel, with some light to med brown silica sand, dry, noncohesive, non-plastic			
D	ND	14	N	BH03	1	1	CCHE	Caliche - Mostly white to tan caliche sand and gravel, with some light to med brown silica sand, dry, noncohesive, non-plastic			
Total Depth @ 1 ft bgs.											

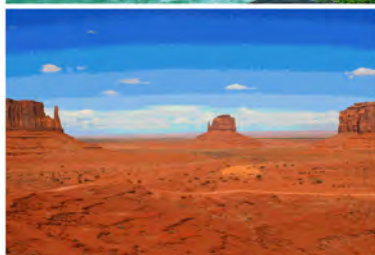


APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Voni West TB

Work Order: E403038

Job Number: 23003-C-0001

Received: 3/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/11/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 3/11/24

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



Project Name: Voni West TB
Workorder: E403038
Date Received: 3/5/2024 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/5/2024 7:00:00AM, under the Project Name: Voni West TB.

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

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

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

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

Respectfully,

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

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

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Sample Custody Officer
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 03/11/24 13:14
---	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 -0'	E403038-01A	Soil	03/01/24	03/05/24	Glass Jar, 2 oz.
SS02 -0'	E403038-02A	Soil	03/01/24	03/05/24	Glass Jar, 2 oz.
SS03 -0'	E403038-03A	Soil	03/01/24	03/05/24	Glass Jar, 2 oz.
SS04 -0'	E403038-04A	Soil	03/01/24	03/05/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/11/2024 1:14:37PM
---	--	----------------------------------

SS01 -0'

E403038-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2410049
Benzene	ND	0.0250	1	03/05/24	03/08/24	
Ethylbenzene	ND	0.0250	1	03/05/24	03/08/24	
Toluene	ND	0.0250	1	03/05/24	03/08/24	
o-Xylene	ND	0.0250	1	03/05/24	03/08/24	
p,m-Xylene	ND	0.0500	1	03/05/24	03/08/24	
Total Xylenes	ND	0.0250	1	03/05/24	03/08/24	
Surrogate: 4-Bromochlorobenzene-PID	93.2 %	70-130		03/05/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2410049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/05/24	03/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.7 %	70-130		03/05/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410080
Diesel Range Organics (C10-C28)	ND	25.0	1	03/07/24	03/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/07/24	03/08/24	
Surrogate: n-Nonane	109 %	50-200		03/07/24	03/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2410057
Chloride	97.4	20.0	1	03/05/24	03/06/24	



Sample Data

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

Project Name: Voni West TB
Project Number: 23003-C-0001
Project Manager: Ashley Giovengo

Reported:
3/11/2024 1:14:37PM

SS02 -0'

E403038-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2410049
Benzene	ND	0.0250	1	03/05/24	03/08/24	
Ethylbenzene	ND	0.0250	1	03/05/24	03/08/24	
Toluene	ND	0.0250	1	03/05/24	03/08/24	
o-Xylene	ND	0.0250	1	03/05/24	03/08/24	
p,m-Xylene	ND	0.0500	1	03/05/24	03/08/24	
Total Xylenes	ND	0.0250	1	03/05/24	03/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		03/05/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2410049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/05/24	03/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		03/05/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410080
Diesel Range Organics (C10-C28)	ND	25.0	1	03/07/24	03/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/07/24	03/08/24	
<i>Surrogate: n-Nonane</i>						
	98.4 %	50-200		03/07/24	03/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2410057
Chloride	ND	20.0	1	03/05/24	03/06/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/11/2024 1:14:37PM
---	--	----------------------------------

SS03 -0'

E403038-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2410049
Benzene	ND	0.0250	1	03/05/24	03/08/24	
Ethylbenzene	ND	0.0250	1	03/05/24	03/08/24	
Toluene	ND	0.0250	1	03/05/24	03/08/24	
o-Xylene	ND	0.0250	1	03/05/24	03/08/24	
p,m-Xylene	ND	0.0500	1	03/05/24	03/08/24	
Total Xylenes	ND	0.0250	1	03/05/24	03/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		03/05/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2410049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/05/24	03/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		03/05/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410080
Diesel Range Organics (C10-C28)	ND	25.0	1	03/07/24	03/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/07/24	03/08/24	
<i>Surrogate: n-Nonane</i>						
	98.4 %	50-200		03/07/24	03/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2410057
Chloride	21.5	20.0	1	03/05/24	03/06/24	



Sample Data

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

Project Name: Voni West TB
Project Number: 23003-C-0001
Project Manager: Ashley Giovengo

Reported:
3/11/2024 1:14:37PM

SS04 -0'

E403038-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2410049
Benzene	ND	0.0250	1	03/05/24	03/08/24	
Ethylbenzene	ND	0.0250	1	03/05/24	03/08/24	
Toluene	ND	0.0250	1	03/05/24	03/08/24	
o-Xylene	ND	0.0250	1	03/05/24	03/08/24	
p,m-Xylene	ND	0.0500	1	03/05/24	03/08/24	
Total Xylenes	ND	0.0250	1	03/05/24	03/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		03/05/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2410049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/05/24	03/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		03/05/24	03/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2410080
Diesel Range Organics (C10-C28)	ND	25.0	1	03/07/24	03/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/07/24	03/08/24	
<i>Surrogate: n-Nonane</i>						
	95.3 %	50-200		03/07/24	03/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2410057
Chloride	48.3	20.0	1	03/05/24	03/06/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/11/2024 1:14:37PM

Volatile Organics by EPA 8021B

Analyst: RKS

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

Blank (2410049-BLK1) Prepared: 03/05/24 Analyzed: 03/07/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

LCS (2410049-BS1) Prepared: 03/05/24 Analyzed: 03/07/24

Benzene	4.80	0.0250	5.00		96.0	70-130			
Ethylbenzene	4.78	0.0250	5.00		95.6	70-130			
Toluene	4.79	0.0250	5.00		95.8	70-130			
o-Xylene	4.73	0.0250	5.00		94.5	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.4	0.0250	15.0		95.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.7	70-130			

Matrix Spike (2410049-MS1) Source: E403039-03 Prepared: 03/05/24 Analyzed: 03/07/24

Benzene	3.95	0.0250	5.00	ND	78.9	54-133			
Ethylbenzene	3.90	0.0250	5.00	ND	78.0	61-133			
Toluene	3.92	0.0250	5.00	ND	78.3	61-130			
o-Xylene	3.87	0.0250	5.00	ND	77.3	63-131			
p,m-Xylene	7.87	0.0500	10.0	ND	78.7	63-131			
Total Xylenes	11.7	0.0250	15.0	ND	78.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			

Matrix Spike Dup (2410049-MSD1) Source: E403039-03 Prepared: 03/05/24 Analyzed: 03/07/24

Benzene	4.45	0.0250	5.00	ND	88.9	54-133	11.9	20	
Ethylbenzene	4.40	0.0250	5.00	ND	88.0	61-133	12.1	20	
Toluene	4.41	0.0250	5.00	ND	88.3	61-130	12.0	20	
o-Xylene	4.36	0.0250	5.00	ND	87.1	63-131	11.9	20	
p,m-Xylene	8.87	0.0500	10.0	ND	88.7	63-131	11.9	20	
Total Xylenes	13.2	0.0250	15.0	ND	88.1	63-131	11.9	20	
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/11/2024 1:14:37PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2410049-BLK1) Prepared: 03/05/24 Analyzed: 03/07/24

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

LCS (2410049-BS2) Prepared: 03/05/24 Analyzed: 03/07/24

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.7	70-130			

Matrix Spike (2410049-MS2) Source: E403039-03 Prepared: 03/05/24 Analyzed: 03/07/24

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike Dup (2410049-MSD2) Source: E403039-03 Prepared: 03/05/24 Analyzed: 03/08/24

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0	ND	86.9	70-130	16.8	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/11/2024 1:14:37PM

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 (2410080-BLK1)					Prepared: 03/07/24 Analyzed: 03/08/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.8		50.0		102	50-200			

LCS (2410080-BS1)					Prepared: 03/07/24 Analyzed: 03/08/24				
Diesel Range Organics (C10-C28)	295	25.0	250		118	38-132			
Surrogate: n-Nonane	52.4		50.0		105	50-200			

Matrix Spike (2410080-MS1)					Source: E403038-04		Prepared: 03/07/24 Analyzed: 03/08/24		
Diesel Range Organics (C10-C28)	292	25.0	250	ND	117	38-132			
Surrogate: n-Nonane	51.2		50.0		102	50-200			

Matrix Spike Dup (2410080-MSD1)					Source: E403038-04		Prepared: 03/07/24 Analyzed: 03/08/24		
Diesel Range Organics (C10-C28)	294	25.0	250	ND	118	38-132	0.920	20	
Surrogate: n-Nonane	51.7		50.0		103	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/11/2024 1:14:37PM
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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 (2410057-BLK1)					Prepared: 03/05/24 Analyzed: 03/06/24				
Chloride	ND	20.0							
LCS (2410057-BS1)					Prepared: 03/05/24 Analyzed: 03/06/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2410057-MS1)					Source: E403039-05		Prepared: 03/05/24 Analyzed: 03/06/24		
Chloride	367	20.0	250	114	101	80-120			
Matrix Spike Dup (2410057-MSD1)					Source: E403039-05		Prepared: 03/05/24 Analyzed: 03/06/24		
Chloride	370	20.0	250	114	102	80-120	0.662	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni West TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/11/24 13:14

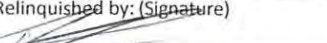
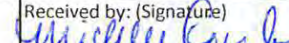
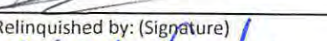
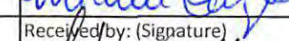
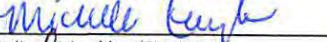
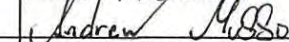
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



[illegible]

Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, chadhamilton@ensolum.com									
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.			
Sampled by: Chad Hamilton									
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	<div>Lab Use Only</div> <div>Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N</div> <div>T1 _____ T2 _____ T3 _____</div> <div>AVG Temp °C <u>4</u></div>			
	03/04/24	1045		3-4-24	1045				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time				
	03-04-24	1530		3-4-24	1630				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time				
	3-4-24	2230		3/5/24	0700				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.									

Envirotech Analytical Laboratory

Printed: 3/5/2024 10:04:44AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	03/05/24 07:00	Work Order ID:	E403038
Phone:	(972) 371-5200	Date Logged In:	03/05/24 07:35	Logged In By:	Angelina Pineda
Email:	agiovngo@ensolum.com	Due Date:	03/11/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

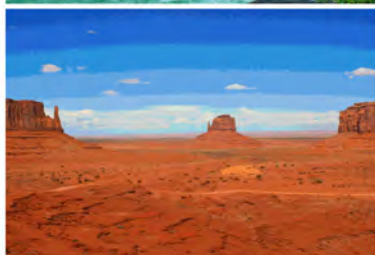
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Voni West TB

Work Order: E403209

Job Number: 23003-C-0001

Received: 3/22/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/28/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 3/28/24

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



Project Name: Voni West TB
Workorder: E403209
Date Received: 3/22/2024 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/22/2024 7:00:00AM, under the Project Name: Voni West TB.

The analytical test results summarized in this report with the Project Name: Voni West 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 03/28/24 13:47
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E403209-01A	Soil	03/20/24	03/22/24	Glass Jar, 2 oz.
BH01-1'	E403209-02A	Soil	03/20/24	03/22/24	Glass Jar, 2 oz.
BH01-2'	E403209-03A	Soil	03/20/24	03/22/24	Glass Jar, 2 oz.
BH02-0'	E403209-04A	Soil	03/20/24	03/22/24	Glass Jar, 2 oz.
BH02-0.5'	E403209-05A	Soil	03/20/24	03/22/24	Glass Jar, 2 oz.
BH02-1'	E403209-06A	Soil	03/20/24	03/22/24	Glass Jar, 2 oz.
BH03-0'	E403209-07A	Soil	03/20/24	03/22/24	Glass Jar, 2 oz.
BH03-0.5'	E403209-08A	Soil	03/20/24	03/22/24	Glass Jar, 2 oz.
BH03-1'	E403209-09A	Soil	03/20/24	03/22/24	Glass Jar, 2 oz.
SS05-0'	E403209-10A	Soil	03/20/24	03/22/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/28/2024 1:47:57PM
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BH01-0'

E403209-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Benzene	0.202	0.0500	2	03/22/24	03/27/24	
Ethylbenzene	3.00	0.0500	2	03/22/24	03/27/24	
Toluene	11.5	0.0500	2	03/22/24	03/27/24	
o-Xylene	12.8	0.0500	2	03/22/24	03/27/24	
p,m-Xylene	49.2	0.100	2	03/22/24	03/27/24	
Total Xylenes	62.0	0.0500	2	03/22/24	03/27/24	
Surrogate: 4-Bromochlorobenzene-PID	110 %	70-130		03/22/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Gasoline Range Organics (C6-C10)	589	40.0	2	03/22/24	03/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.1 %	70-130		03/22/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413011	
Diesel Range Organics (C10-C28)	5710	25.0	1	03/25/24	03/26/24	
Oil Range Organics (C28-C36)	165	50.0	1	03/25/24	03/26/24	
Surrogate: n-Nonane	308 %	50-200		03/25/24	03/26/24	S5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2412111	
Chloride	7210	100	5	03/22/24	03/22/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/28/2024 1:47:57PM
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BH01-1'

E403209-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Benzene	ND	0.0250	1	03/22/24	03/27/24	
Ethylbenzene	ND	0.0250	1	03/22/24	03/27/24	
Toluene	ND	0.0250	1	03/22/24	03/27/24	
o-Xylene	ND	0.0250	1	03/22/24	03/27/24	
p,m-Xylene	ND	0.0500	1	03/22/24	03/27/24	
Total Xylenes	ND	0.0250	1	03/22/24	03/27/24	
Surrogate: 4-Bromochlorobenzene-PID	97.6 %	70-130		03/22/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/22/24	03/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.1 %	70-130		03/22/24	03/27/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413011	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/25/24	03/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/25/24	03/26/24	
Surrogate: n-Nonane	73.1 %	50-200		03/25/24	03/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2412111	
Chloride	25.6	20.0	1	03/22/24	03/22/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/28/2024 1:47:57PM
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BH02-0'

E403209-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Benzene	ND	0.0250	1	03/22/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/22/24	03/26/24	
Toluene	ND	0.0250	1	03/22/24	03/26/24	
o-Xylene	ND	0.0250	1	03/22/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/22/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/22/24	03/26/24	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		03/22/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/22/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		03/22/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413011	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/25/24	03/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/25/24	03/26/24	
Surrogate: n-Nonane	78.2 %	50-200		03/25/24	03/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2412111	
Chloride	1340	20.0	1	03/22/24	03/22/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/28/2024 1:47:57PM
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BH02-0.5'
E403209-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Benzene	ND	0.0250	1	03/22/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/22/24	03/26/24	
Toluene	ND	0.0250	1	03/22/24	03/26/24	
o-Xylene	ND	0.0250	1	03/22/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/22/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/22/24	03/26/24	
Surrogate: 4-Bromochlorobenzene-PID	94.7 %	70-130		03/22/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/22/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		03/22/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413011	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/25/24	03/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/25/24	03/26/24	
Surrogate: n-Nonane	76.6 %	50-200		03/25/24	03/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2412111	
Chloride	ND	20.0	1	03/22/24	03/22/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/28/2024 1:47:57PM
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BH03-0'

E403209-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Benzene	ND	0.0250	1	03/22/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/22/24	03/26/24	
Toluene	0.0334	0.0250	1	03/22/24	03/26/24	
o-Xylene	ND	0.0250	1	03/22/24	03/26/24	
p,m-Xylene	0.132	0.0500	1	03/22/24	03/26/24	
Total Xylenes	0.132	0.0250	1	03/22/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		03/22/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/22/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		03/22/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413011	
Diesel Range Organics (C10-C28)	4240	50.0	2	03/25/24	03/26/24	
Oil Range Organics (C28-C36)	7000	100	2	03/25/24	03/26/24	
<i>Surrogate: n-Nonane</i>						
	74.8 %	50-200		03/25/24	03/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2412111	
Chloride	71.5	20.0	1	03/22/24	03/22/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/28/2024 1:47:57PM
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BH03-0.5'
E403209-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Benzene	ND	0.0250	1	03/22/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/22/24	03/26/24	
Toluene	ND	0.0250	1	03/22/24	03/26/24	
o-Xylene	ND	0.0250	1	03/22/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/22/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/22/24	03/26/24	
Surrogate: 4-Bromochlorobenzene-PID	94.0 %	70-130		03/22/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/22/24	03/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		03/22/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2413011	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/25/24	03/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/25/24	03/27/24	
Surrogate: n-Nonane	81.0 %	50-200		03/25/24	03/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2412111	
Chloride	21.4	20.0	1	03/22/24	03/22/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/28/2024 1:47:57PM
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SS05-0'

E403209-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Benzene	ND	0.0250	1	03/22/24	03/26/24	
Ethylbenzene	ND	0.0250	1	03/22/24	03/26/24	
Toluene	ND	0.0250	1	03/22/24	03/26/24	
o-Xylene	ND	0.0250	1	03/22/24	03/26/24	
p,m-Xylene	ND	0.0500	1	03/22/24	03/26/24	
Total Xylenes	ND	0.0250	1	03/22/24	03/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		03/22/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2412104	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/22/24	03/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		03/22/24	03/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2413011	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/25/24	03/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/25/24	03/26/24	
<i>Surrogate: n-Nonane</i>						
	69.3 %	50-200		03/25/24	03/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2412111	
Chloride	121	20.0	1	03/22/24	03/22/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/28/2024 1:47:57PM

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 (2412104-BLK1) Prepared: 03/22/24 Analyzed: 03/26/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.29		8.00		91.1	70-130			

LCS (2412104-BS1) Prepared: 03/22/24 Analyzed: 03/26/24

Benzene	5.07	0.0250	5.00		101	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.6	70-130			
Toluene	5.06	0.0250	5.00		101	70-130			
o-Xylene	4.99	0.0250	5.00		99.7	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike (2412104-MS1) Source: E403209-08 Prepared: 03/22/24 Analyzed: 03/26/24

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.90	0.0250	5.00	ND	98.0	61-133			
Toluene	5.03	0.0250	5.00	ND	101	61-130			
o-Xylene	4.95	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	99.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

Matrix Spike Dup (2412104-MSD1) Source: E403209-08 Prepared: 03/22/24 Analyzed: 03/26/24

Benzene	4.96	0.0250	5.00	ND	99.1	54-133	1.62	20	
Ethylbenzene	4.82	0.0250	5.00	ND	96.4	61-133	1.61	20	
Toluene	4.95	0.0250	5.00	ND	98.9	61-130	1.64	20	
o-Xylene	4.89	0.0250	5.00	ND	97.7	63-131	1.40	20	
p,m-Xylene	9.87	0.0500	10.0	ND	98.7	63-131	1.62	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131	1.55	20	
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/28/2024 1:47:57PM

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 (2412104-BLK1) Prepared: 03/22/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			

LCS (2412104-BS2) Prepared: 03/22/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	50.1	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.3	70-130			

Matrix Spike (2412104-MS2) Source: E403209-08 Prepared: 03/22/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.6	70-130			

Matrix Spike Dup (2412104-MSD2) Source: E403209-08 Prepared: 03/22/24 Analyzed: 03/26/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.5	70-130	0.248	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/28/2024 1:47:57PM

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 (2413011-BLK1) Prepared: 03/25/24 Analyzed: 03/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.3		50.0		80.5	50-200			

LCS (2413011-BS1) Prepared: 03/25/24 Analyzed: 03/26/24

Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	39.3		50.0		78.7	50-200			

Matrix Spike (2413011-MS1) Source: E403209-04 Prepared: 03/25/24 Analyzed: 03/26/24

Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	38.9		50.0		77.8	50-200			

Matrix Spike Dup (2413011-MSD1) Source: E403209-04 Prepared: 03/25/24 Analyzed: 03/26/24

Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132	1.70	20	
Surrogate: n-Nonane	41.6		50.0		83.2	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 3/28/2024 1:47:57PM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2412111-BLK1)					Prepared: 03/22/24 Analyzed: 03/22/24				
Chloride	ND	20.0							
LCS (2412111-BS1)					Prepared: 03/22/24 Analyzed: 03/22/24				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2412111-MS1)					Source: E403209-09		Prepared: 03/22/24 Analyzed: 03/22/24		
Chloride	303	20.0	250	42.4	104	80-120			
Matrix Spike Dup (2412111-MSD1)					Source: E403209-09		Prepared: 03/22/24 Analyzed: 03/22/24		
Chloride	298	20.0	250	42.4	102	80-120	1.72	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni West TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/28/24 13:47

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

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

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



Client: Matador Production Company					Bill To		Lab Use Only						TAT				EPA Program			
Project: Voni West TB					Attention: Ensolum LLC		Lab WO#			Job Number			1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo					Address: on file		E403209			23063-C-0001						X				
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method												RCRA	
City, State, Zip: Carlsbad NM, 88220					Phone: 575-988-0055		TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State					
Email: agiovengo@ensolum.com					Email: agiovengo@ensolum.com										NM	CO	UT	AZ	TX	
Report due by:																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														Remarks	
10:16	3/20/2024	S	1	BH01 - 0'	1								X							
11:19	3/20/2024	S	1	BH01 - 1'	2								X							
11:22	3/20/2024	S	1	BH01 - 2'	3								X				Only test if BH01 - 1' does not pass 100 TPH and 600 Chloride			
10:22	3/20/2024	S	1	BH02 - 0'	4								X							
10:26	3/20/2024	S	1	BH02 - 0.5'	5								X							
11:16	3/20/2024	S	1	BH02 - 1'	6								X				Only test if BH02 - 0.5' does not pass 100 TPH and 600 Chloride			
10:29	3/20/2024	S	1	BH03 - 0'	7								X							
10:35	3/20/2024	S	1	BH03 - 0.5'	8								X							
11:12	3/20/2024	S	1	BH03 - 1'	9								X				Only test if BH03 - 0.5' does not pass 100 TPH and 600 Chloride			
11:57	3/20/2024	S	1	SS05 - 0'	10								X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally 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												
		03/21/24				3-21-24	0810	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3												
		3-21-24	1400			3-21-24	1800													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C												
		3-21-24	2400			3-22-24	0700	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: 3/25/2024 12:48:04PM

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:	03/22/24 07:00	Work Order ID:	E403209
Phone:	(972) 371-5200	Date Logged In:	03/21/24 16:43	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	03/28/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: Courier**Comments/Resolution**

See remarks on COC from client on samples -03, -06, and -09.

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.

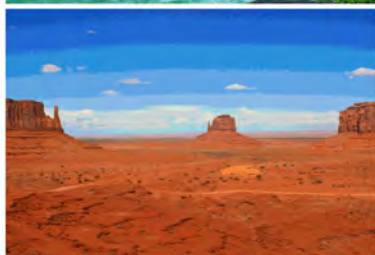
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Voni West TB

Work Order: E404141

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: Voni West TB
Workorder: E404141
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: Voni West TB.

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

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

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

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

Respectfully,

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

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

Alexa Michaels
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 04/22/24 13:32
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 0'	E404141-01A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
FS02 - 0'	E404141-02A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
FS03 - 0'	E404141-03A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
FS04 - 0'	E404141-04A	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: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:32:06PM
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FS01 - 0'

E404141-01

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	
Surrogate: Bromofluorobenzene		103 %	70-130	04/17/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	04/17/24	04/17/24	
Surrogate: Toluene-d8		98.6 %	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	
Surrogate: Bromofluorobenzene		103 %	70-130	04/17/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	04/17/24	04/17/24	
Surrogate: Toluene-d8		98.6 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2416088	
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	
Surrogate: n-Nonane		120 %	50-200	04/18/24	04/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2416083	
Chloride	ND	20.0	1	04/17/24	04/19/24	



Sample Data

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

Project Name: Voni West TB
Project Number: 23003-C-0001
Project Manager: Ashley Giovengo

Reported:
4/22/2024 1:32:06PM

FS02 - 0'

E404141-02

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	
Surrogate: Bromofluorobenzene		101 %	70-130	04/17/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	04/17/24	04/17/24	
Surrogate: Toluene-d8		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	
Surrogate: Bromofluorobenzene		101 %	70-130	04/17/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	04/17/24	04/17/24	
Surrogate: Toluene-d8		98.2 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2416088
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	
Surrogate: n-Nonane		122 %	50-200	04/18/24	04/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416083
Chloride	ND	20.0	1	04/17/24	04/19/24	



Sample Data

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

Project Name: Voni West TB
Project Number: 23003-C-0001
Project Manager: Ashley Giovengo

Reported:
4/22/2024 1:32:06PM

FS03 - 0'

E404141-03

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	
Surrogate: Bromofluorobenzene		101 %	70-130	04/17/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/17/24	04/17/24	
Surrogate: Toluene-d8		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	
Surrogate: Bromofluorobenzene		101 %	70-130	04/17/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/17/24	04/17/24	
Surrogate: Toluene-d8		99.3 %	70-130	04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2416088
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	
Surrogate: n-Nonane		119 %	50-200	04/18/24	04/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416083
Chloride	ND	20.0	1	04/17/24	04/19/24	



Sample Data

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

Project Name: Voni West TB
Project Number: 23003-C-0001
Project Manager: Ashley Giovengo

Reported:
4/22/2024 1:32:06PM

FS04 - 0'

E404141-04

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	
Surrogate: Bromofluorobenzene	98.2 %	70-130		04/17/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		04/17/24	04/17/24	
Surrogate: Toluene-d8	97.3 %	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	
Surrogate: Bromofluorobenzene	98.2 %	70-130		04/17/24	04/17/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		04/17/24	04/17/24	
Surrogate: Toluene-d8	97.3 %	70-130		04/17/24	04/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2416088
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	
Surrogate: n-Nonane	125 %	50-200		04/18/24	04/18/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416083
Chloride	40.2	20.0	1	04/17/24	04/19/24	



Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:32:06PM

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: E404135-02Prepared: 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: E404135-02Prepared: 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.	Project Name:	Voni West TB	Reported: 4/22/2024 1:32:06PM
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (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.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/22/2024 1:32:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416088-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: n-Nonane	63.4		50.0		127	50-200			

LCS (2416088-BS1) Prepared: 04/18/24 Analyzed: 04/19/24

Diesel Range Organics (C10-C28)	312	25.0	250		125	38-132			
Surrogate: n-Nonane	59.4		50.0		119	50-200			

Matrix Spike (2416088-MS1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	21700	500	250	22100	NR	38-132			M4
Surrogate: n-Nonane	62.6		50.0		125	50-200			

Matrix Spike Dup (2416088-MSD1) Source: E404146-01 Prepared: 04/18/24 Analyzed: 04/18/24

Diesel Range Organics (C10-C28)	24200	500	250	22100	839	38-132	10.6	20	M4
Surrogate: n-Nonane	62.1		50.0		124	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/22/2024 1:32:06PM
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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 (2416083-BLK1)					Prepared: 04/17/24 Analyzed: 04/18/24				
Chloride	ND	20.0							
LCS (2416083-BS1)					Prepared: 04/17/24 Analyzed: 04/18/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2416083-MS1)					Source: E404121-03		Prepared: 04/17/24 Analyzed: 04/18/24		
Chloride	10000	200	250	10200	NR	80-120			M4
Matrix Spike Dup (2416083-MSD1)					Source: E404121-03		Prepared: 04/17/24 Analyzed: 04/18/24		
Chloride	10500	200	250	10200	119	80-120	4.92	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni West TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/22/24 13:32

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

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

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



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

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.

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: 4/17/2024 10:21:55AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

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

Date Received: 04/17/24 08:00
 Date Logged In: 04/16/24 16:31
 Due Date: 04/23/24 17:00 (4 day TAT)

Work Order ID: E404141
 Logged In By: Jessica Liesse

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 InstructionComments/Resolution

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

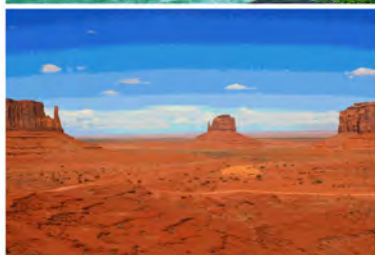
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Voni West TB

Work Order: E404158

Job Number: 23003-C-0001

Received: 4/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/24/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/24/24

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



Project Name: Voni West TB
Workorder: E404158
Date Received: 4/18/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2024 7:45:00AM, under the Project Name: Voni West TB.

The analytical test results summarized in this report with the Project Name: Voni West 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,

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Sample Summary

Matador Resources, LLC.

5400 LBJ Freeway, Suite 1500

Dallas TX, 75240

Project Name:

Voni West TB

Project Number:

23003-C-0001

Project Manager:

Ashley Giovengo

Reported:

04/24/24 15:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS05 -0'	E404158-01A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS06 -0'	E404158-02A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS07 -0'	E404158-03A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS08 -0'	E404158-04A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS09 -0'	E404158-05A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS10 -0'	E404158-06A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS11 -0'	E404158-07A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS12 -0'	E404158-08A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS13 -0'	E404158-09A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS14 -0'	E404158-10A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS15 -0'	E404158-11A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS16 -0'	E404158-12A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS17 -0'	E404158-13A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS18 -0'	E404158-14A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS19 -0'	E404158-15A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS20 -0'	E404158-16A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS21 -0'	E404158-17A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS22 -0'	E404158-18A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS23 -0'	E404158-19A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS24 -0'	E404158-20A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS25 -0'	E404158-21A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS26 -0'	E404158-22A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS27 -0'	E404158-23A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS28 -0'	E404158-24A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS29 -0'	E404158-25A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS30 -0'	E404158-26A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS31 -0'	E404158-27A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS32 -0'	E404158-28A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS33 -0'	E404158-29A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
FS34 -0'	E404158-30A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Voni West TB
Project Number: 23003-C-0001
Project Manager: Ashley Giovengo

Reported:
4/24/2024 3:01:59PM

FS05 -0'

E404158-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene		101 %	70-130	04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	04/18/24	04/18/24	
Surrogate: Toluene-d8		100 %	70-130	04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene		101 %	70-130	04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	04/18/24	04/18/24	
Surrogate: Toluene-d8		100 %	70-130	04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane		111 %	50-200	04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2416106	
Chloride	ND	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS06 -0'

E404158-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene		101 %	70-130	04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/18/24	04/18/24	
Surrogate: Toluene-d8		99.1 %	70-130	04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene		101 %	70-130	04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/18/24	04/18/24	
Surrogate: Toluene-d8		99.1 %	70-130	04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane		110 %	50-200	04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2416106	
Chloride	ND	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS07 -0'

E404158-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2416097
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene		102 %	70-130	04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	04/18/24	04/18/24	
Surrogate: Toluene-d8		98.4 %	70-130	04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2416097
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene		102 %	70-130	04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	04/18/24	04/18/24	
Surrogate: Toluene-d8		98.4 %	70-130	04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2416125
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane		110 %	50-200	04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416106
Chloride	632	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS08 -0'

E404158-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2416097
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene		100 %	70-130	04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	04/18/24	04/18/24	
Surrogate: Toluene-d8		98.9 %	70-130	04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2416097
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene		100 %	70-130	04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	70-130	04/18/24	04/18/24	
Surrogate: Toluene-d8		98.9 %	70-130	04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2416125
Diesel Range Organics (C10-C28)	69.6	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane		110 %	50-200	04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416106
Chloride	622	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS09 -0'

E404158-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2416097
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene		102 %	70-130	04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	04/18/24	04/18/24	
Surrogate: Toluene-d8		99.7 %	70-130	04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2416097
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene		102 %	70-130	04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	04/18/24	04/18/24	
Surrogate: Toluene-d8		99.7 %	70-130	04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2416125
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane		108 %	50-200	04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416106
Chloride	27.4	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS10 -0'

E404158-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2416097
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene		102 %	70-130	04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	04/18/24	04/18/24	
Surrogate: Toluene-d8		99.6 %	70-130	04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2416097
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene		102 %	70-130	04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	04/18/24	04/18/24	
Surrogate: Toluene-d8		99.6 %	70-130	04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2416125
Diesel Range Organics (C10-C28)	176	25.0	1	04/19/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/23/24	
Surrogate: n-Nonane		112 %	50-200	04/19/24	04/23/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416106
Chloride	59.0	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS11 -0'

E404158-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	103 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	98.9 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	103 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	98.9 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	79.4	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane	108 %	50-200		04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2416106	
Chloride	49.7	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS12 -0'

E404158-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2416097
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	04/18/24	04/19/24	
Surrogate: Toluene-d8		99.9 %	70-130	04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2416097
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	04/18/24	04/19/24	
Surrogate: Toluene-d8		99.9 %	70-130	04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2416125
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane		109 %	50-200	04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416106
Chloride	ND	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS13 -0'
E404158-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	102 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	100 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	102 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	100 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	39.9	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane	109 %	50-200		04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2416106	
Chloride	621	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS14 -0'

E404158-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	101 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	98.9 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	101 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	98.9 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane	106 %	50-200		04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2416106	
Chloride	1150	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS15 -0'

E404158-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene		103 %	70-130	04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	04/18/24	04/19/24	
Surrogate: Toluene-d8		99.4 %	70-130	04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene		103 %	70-130	04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	04/18/24	04/19/24	
Surrogate: Toluene-d8		99.4 %	70-130	04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane		109 %	50-200	04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2416106	
Chloride	ND	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS16 -0'

E404158-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	102 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	100 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	102 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	100 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane	108 %	50-200		04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2416106	
Chloride	54.8	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS17 -0'

E404158-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	101 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	98.7 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	101 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	98.7 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane	110 %	50-200		04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2416106	
Chloride	42.3	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS18 -0'

E404158-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	101 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	97.9 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	101 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	97.9 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane	109 %	50-200		04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2416106	
Chloride	ND	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS19 -0'

E404158-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	99.7 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	98.3 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	99.7 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	98.3 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	650	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane	112 %	50-200		04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2416106	
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: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS20 -0'

E404158-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	101 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	97.6 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	101 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	99.5 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	97.6 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	97.5	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane	111 %	50-200		04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2416106	
Chloride	31.5	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS21 -0'

E404158-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/18/24	04/19/24	
Surrogate: Toluene-d8		98.6 %	70-130	04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene		100 %	70-130	04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/18/24	04/19/24	
Surrogate: Toluene-d8		98.6 %	70-130	04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane		113 %	50-200	04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2416106	
Chloride	71.0	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS22 -0'

E404158-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/18/24	04/19/24	
Surrogate: Toluene-d8		98.8 %	70-130	04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene		101 %	70-130	04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/18/24	04/19/24	
Surrogate: Toluene-d8		98.8 %	70-130	04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane		109 %	50-200	04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2416106	
Chloride	20.7	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS23 -0'

E404158-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	102 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	98.9 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2416097	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene	102 %	70-130		04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		04/18/24	04/19/24	
Surrogate: Toluene-d8	98.9 %	70-130		04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2416125	
Diesel Range Organics (C10-C28)	47.1	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane	110 %	50-200		04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: IY		Batch: 2416106	
Chloride	1560	20.0	1	04/18/24	04/19/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS24 -0'

E404158-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2416097
Benzene	ND	0.0250	1	04/18/24	04/19/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/19/24	
Toluene	ND	0.0250	1	04/18/24	04/19/24	
o-Xylene	ND	0.0250	1	04/18/24	04/19/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/19/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene		102 %	70-130	04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/18/24	04/19/24	
Surrogate: Toluene-d8		98.6 %	70-130	04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2416097
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/19/24	
Surrogate: Bromofluorobenzene		102 %	70-130	04/18/24	04/19/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/18/24	04/19/24	
Surrogate: Toluene-d8		98.6 %	70-130	04/18/24	04/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2416125
Diesel Range Organics (C10-C28)	43.6	25.0	1	04/19/24	04/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/19/24	04/20/24	
Surrogate: n-Nonane		112 %	50-200	04/19/24	04/20/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2416106
Chloride	2170	20.0	1	04/18/24	04/20/24	



Sample Data

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

Project Name: Voni West TB
Project Number: 23003-C-0001
Project Manager: Ashley Giovengo

Reported:
4/24/2024 3:01:59PM

FS25 -0'

E404158-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	98.4 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	98.4 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417002
Diesel Range Organics (C10-C28)	ND	25.0	1	04/22/24	04/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/24	04/22/24	
Surrogate: n-Nonane	117 %	50-200		04/22/24	04/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416107
Chloride	389	20.0	1	04/18/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS26 -0'

E404158-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	93.9 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	99.5 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	93.9 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	99.5 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417002
Diesel Range Organics (C10-C28)	139	25.0	1	04/22/24	04/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/24	04/22/24	
Surrogate: n-Nonane	113 %	50-200		04/22/24	04/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416107
Chloride	421	20.0	1	04/18/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS27 -0'

E404158-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	98.7 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	98.7 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417002
Diesel Range Organics (C10-C28)	1130	25.0	1	04/22/24	04/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/24	04/22/24	
Surrogate: n-Nonane	117 %	50-200		04/22/24	04/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416107
Chloride	66.5	20.0	1	04/18/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS28 -0'

E404158-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	96.4 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	92.6 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	96.4 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417002
Diesel Range Organics (C10-C28)	ND	25.0	1	04/22/24	04/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/24	04/22/24	
Surrogate: n-Nonane	111 %	50-200		04/22/24	04/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416107
Chloride	36.6	20.0	1	04/18/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS29 -0'

E404158-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	94.6 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	98.5 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	94.6 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	98.5 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417002
Diesel Range Organics (C10-C28)	ND	25.0	1	04/22/24	04/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/24	04/22/24	
Surrogate: n-Nonane	120 %	50-200		04/22/24	04/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416107
Chloride	147	20.0	1	04/18/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS30 -0'

E404158-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	92.8 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	97.4 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	92.8 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	98.2 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	97.4 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417002
Diesel Range Organics (C10-C28)	ND	25.0	1	04/22/24	04/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/24	04/22/24	
Surrogate: n-Nonane	116 %	50-200		04/22/24	04/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416107
Chloride	976	20.0	1	04/18/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS31 -0'

E404158-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	94.1 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	99.8 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	94.1 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	99.8 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417002
Diesel Range Organics (C10-C28)	ND	25.0	1	04/22/24	04/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/24	04/22/24	
Surrogate: n-Nonane	112 %	50-200		04/22/24	04/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416107
Chloride	236	20.0	1	04/18/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS32 -0'

E404158-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2416098	
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	98.9 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2416098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	98.9 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2417002	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/22/24	04/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/24	04/22/24	
Surrogate: n-Nonane	113 %	50-200		04/22/24	04/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2416107	
Chloride	548	20.0	1	04/18/24	04/20/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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FS33 -0'

E404158-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	93.4 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	98.1 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	93.4 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	98.1 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417002
Diesel Range Organics (C10-C28)	ND	25.0	1	04/22/24	04/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/24	04/22/24	
Surrogate: n-Nonane	121 %	50-200		04/22/24	04/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416107
Chloride	424	20.0	1	04/18/24	04/20/24	



Sample Data

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

Project Name: Voni West TB
Project Number: 23003-C-0001
Project Manager: Ashley Giovengo

Reported:
4/24/2024 3:01:59PM

FS34 -0'

E404158-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	91.8 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	100 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2416098
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: Bromofluorobenzene	91.8 %	70-130		04/18/24	04/18/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		04/18/24	04/18/24	
Surrogate: Toluene-d8	100 %	70-130		04/18/24	04/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2417002
Diesel Range Organics (C10-C28)	26.8	25.0	1	04/22/24	04/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/24	04/22/24	
Surrogate: n-Nonane	121 %	50-200		04/22/24	04/22/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2416107
Chloride	438	20.0	1	04/18/24	04/20/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/24/2024 3:01:59PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2416097-BLK1) Prepared: 04/18/24 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: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

LCS (2416097-BS1) Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	2.67	0.0250	2.50		107	70-130			
Ethylbenzene	2.60	0.0250	2.50		104	70-130			
Toluene	2.50	0.0250	2.50		100	70-130			
o-Xylene	2.64	0.0250	2.50		106	70-130			
p,m-Xylene	5.14	0.0500	5.00		103	70-130			
Total Xylenes	7.78	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

Matrix Spike (2416097-MS1) Source: E404158-12 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	2.40	0.0250	2.50	ND	96.1	48-131			
Ethylbenzene	2.34	0.0250	2.50	ND	93.7	45-135			
Toluene	2.26	0.0250	2.50	ND	90.4	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.6	43-135			
p,m-Xylene	4.63	0.0500	5.00	ND	92.6	43-135			
Total Xylenes	7.02	0.0250	7.50	ND	93.6	43-135			
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			

Matrix Spike Dup (2416097-MSD1) Source: E404158-12 Prepared: 04/18/24 Analyzed: 04/23/24

Benzene	2.68	0.0250	2.50	ND	107	48-131	11.0	23	
Ethylbenzene	2.59	0.0250	2.50	ND	103	45-135	9.98	27	
Toluene	2.50	0.0250	2.50	ND	100	48-130	10.1	24	
o-Xylene	2.59	0.0250	2.50	ND	103	43-135	7.90	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	8.45	27	
Total Xylenes	7.63	0.0250	7.50	ND	102	43-135	8.26	27	
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.495		0.500		99.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/24/2024 3:01:59PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

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

Blank (2416098-BLK1) Prepared: 04/18/24 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: Bromofluorobenzene	0.463		0.500		92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2416098-BS1) Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	2.09	0.0250	2.50		83.4	70-130			
Ethylbenzene	2.13	0.0250	2.50		85.4	70-130			
Toluene	2.24	0.0250	2.50		89.6	70-130			
o-Xylene	2.20	0.0250	2.50		87.9	70-130			
p,m-Xylene	4.40	0.0500	5.00		88.0	70-130			
Total Xylenes	6.60	0.0250	7.50		88.0	70-130			
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			

Matrix Spike (2416098-MS1) Source: E404158-28 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	2.18	0.0250	2.50	ND	87.3	48-131			
Ethylbenzene	2.13	0.0250	2.50	ND	85.2	45-135			
Toluene	2.26	0.0250	2.50	ND	90.5	48-130			
o-Xylene	2.16	0.0250	2.50	ND	86.5	43-135			
p,m-Xylene	4.36	0.0500	5.00	ND	87.2	43-135			
Total Xylenes	6.52	0.0250	7.50	ND	87.0	43-135			
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

Matrix Spike Dup (2416098-MSD1) Source: E404158-28 Prepared: 04/18/24 Analyzed: 04/18/24

Benzene	2.30	0.0250	2.50	ND	92.0	48-131	5.18	23	
Ethylbenzene	2.26	0.0250	2.50	ND	90.6	45-135	6.10	27	
Toluene	2.42	0.0250	2.50	ND	96.8	48-130	6.73	24	
o-Xylene	2.28	0.0250	2.50	ND	91.2	43-135	5.31	27	
p,m-Xylene	4.58	0.0500	5.00	ND	91.6	43-135	4.92	27	
Total Xylenes	6.86	0.0250	7.50	ND	91.5	43-135	5.05	27	
Surrogate: Bromofluorobenzene	0.479		0.500		95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/24/2024 3:01:59PM

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 (2416097-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

LCS (2416097-BS2) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2416097-MS2) Source: E404158-12 Prepared: 04/18/24 Analyzed: 04/19/24

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			

Matrix Spike Dup (2416097-MSD2) Source: E404158-12 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.4	70-130	24.8	20	R3
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/24/2024 3:01:59PM

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 (2416098-BLK1) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.463		0.500		92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

LCS (2416098-BS2) Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.478		0.500		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike (2416098-MS2) Source: E404158-28 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.467		0.500		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike Dup (2416098-MSD2) Source: E404158-28 Prepared: 04/18/24 Analyzed: 04/18/24

Gasoline Range Organics (C6-C10)	53.0	20.0	50.0	ND	106	70-130	1.81	20	
Surrogate: Bromofluorobenzene	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/24/2024 3:01:59PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416125-BLK1) Prepared: 04/19/24 Analyzed: 04/20/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.8		50.0		106	50-200			

LCS (2416125-BS1) Prepared: 04/19/24 Analyzed: 04/20/24

Diesel Range Organics (C10-C28)	248	25.0	250		99.3	38-132			
Surrogate: n-Nonane	52.9		50.0		106	50-200			

Matrix Spike (2416125-MS1) Source: E404158-06 Prepared: 04/19/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	429	25.0	250	176	101	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			

Matrix Spike Dup (2416125-MSD1) Source: E404158-06 Prepared: 04/19/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	433	25.0	250	176	103	38-132	0.922	20	
Surrogate: n-Nonane	54.1		50.0		108	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/24/2024 3:01:59PM

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 (2417002-BLK1) Prepared: 04/22/24 Analyzed: 04/22/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.7		50.0		117	50-200			

LCS (2417002-BS1) Prepared: 04/22/24 Analyzed: 04/22/24

Diesel Range Organics (C10-C28)	284	25.0	250		114	38-132			
Surrogate: n-Nonane	59.6		50.0		119	50-200			

Matrix Spike (2417002-MS1) Source: E404158-23 Prepared: 04/22/24 Analyzed: 04/22/24

Diesel Range Organics (C10-C28)	1390	25.0	250	1130	104	38-132			
Surrogate: n-Nonane	59.8		50.0		120	50-200			

Matrix Spike Dup (2417002-MSD1) Source: E404158-23 Prepared: 04/22/24 Analyzed: 04/22/24

Diesel Range Organics (C10-C28)	1420	25.0	250	1130	115	38-132	1.85	20	
Surrogate: n-Nonane	60.0		50.0		120	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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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 (2416106-BLK1)						Prepared: 04/18/24 Analyzed: 04/19/24			
Chloride	ND	20.0							
LCS (2416106-BS1)						Prepared: 04/18/24 Analyzed: 04/19/24			
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2416106-MS1)				Source: E404158-09		Prepared: 04/18/24 Analyzed: 04/19/24			
Chloride	860	20.0	250	621	95.6	80-120			
Matrix Spike Dup (2416106-MSD1)				Source: E404158-09		Prepared: 04/18/24 Analyzed: 04/19/24			
Chloride	870	20.0	250	621	99.6	80-120	1.14	20	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 3:01:59PM
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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 (2416107-BLK1)					Prepared: 04/18/24 Analyzed: 04/20/24				
Chloride	ND	20.0							
LCS (2416107-BS1)					Prepared: 04/18/24 Analyzed: 04/20/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2416107-MS1)					Source: E404158-24		Prepared: 04/18/24 Analyzed: 04/20/24		
Chloride	287	20.0	250	36.6	100	80-120			
Matrix Spike Dup (2416107-MSD1)					Source: E404158-24		Prepared: 04/18/24 Analyzed: 04/20/24		
Chloride	290	20.0	250	36.6	101	80-120	1.17	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni West TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/24/24 15:01

- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- 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: [Signature] Date: 5/16/24 1:31:53 PM

Received by: [Signature] Date: 5/29/2024 2:07:07 PM

Client: Matador Production Company				Bill To				Lab Use Only				TAT				EPA Program											
Project: Vonl West TB				Attention: Ensolum LLC				Lab WO# E 404158				Job Number 23003-E-0001				1D 2D 3D Standard X				CWA SDWA							
Project Manager: Ashley Giovengo				Address: on file				Analysis and Method				TPH GRO/DRO/ORO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 TCEQ TPH BGDOC NM GDOC TX				State NM CO UT AZ TX X				RCRA							
Address: 3122 National Parks Hwy				City, State, Zip:																							
City, State, Zip: Carlsbad NM, 88220				Phone: 575-988-0055																							
Phone: 575-988-0055				Email: agiovengo@ensolum.com																							
Email: agiovengo@ensolum.com																											
Report due by:																											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																					
9:26	4/16/2024	S	1	FS05 - 0'	1																						
9:29	4/16/2024	S	1	FS06 - 0'	2																						
9:31	4/16/2024	S	1	FS07 - 0'	3																						
9:33	4/16/2024	S	1	FS08 - 0'	4																						
9:35	4/16/2024	S	1	FS09 - 0'	5																						
9:37	4/16/2024	S	1	FS10 - 0'	6																						
9:41	4/16/2024	S	1	FS11 - 0'	7																						
9:42	4/16/2024	S	1	FS12 - 0'	8																						
9:44	4/16/2024	S	1	FS13 - 0'	9																						
9:46	4/16/2024	S	1	FS14 - 0'	10																						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, lestrella@ensolum.com																											
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only															
[Signature]		4/17/24		9:30		Michelle Gonzales		4/17/24		0930		Received on Ice: <input checked="" type="checkbox"/> N															
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3															
Michelle Gonzales		4/17/24		1617		[Signature]		4/17/24		1730																	
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C															
[Signature]		4/17/24		2400		[Signature]		4/18/24		0745		4															
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																											

Client: Matador Production Company					Bill To					Lab Use Only					TAT				EPA Program					
Project: Vonl West TB					Attention: Ensolum LLC					Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo					Address: on file					E 404154		2303-C-0001						X						
Address: 3122 National Parks Hwy					City, State, Zip:					Analysis and Method											RCRA			
City, State, Zip: Carlsbad NM, 88220					Phone: 575-988-0055					TPH GRO/DRO/ORO by	8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TCEQ TPH	BGDOC NM	GDOC TX	State					
Phone: 575-988-0055					Email: agiovengo@ensolum.com														NM	CO	UT	AZ	TX	
Email: agiovengo@ensolum.com										X														
Report due by:																				Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																			
12:11	4/16/2024	S	1	FS15 - 0'	11											X								
12:13	4/16/2024	S	1	FS16 - 0'	12											X								
12:15	4/16/2024	S	1	FS17 - 0'	13											X								
12:18	4/16/2024	S	1	FS18 - 0'	14											X								
12:19	4/16/2024	S	1	FS19 - 0'	15											X								
12:21	4/16/2024	S	1	FS20 - 0'	16											X								
13:46	4/16/2024	S	1	FS21 - 0'	17											X								
13:48	4/16/2024	S	1	FS22 - 0'	18											X								
13:50	4/16/2024	S	1	FS23 - 0'	19											X								
13:52	4/16/2024	S	1	FS24 - 0'	20											X								
Additional Instructions: Please CC: cburton@ensolum.com, aglovengo@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: Chad Hamilton					Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only																
		4/17/24	9:30			4-17-24	0930	Received on Ice: <input checked="" type="radio"/> Y / <input type="radio"/> N																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____																
		4-17-24	1617			4-17-24	1730																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C _____																
		4.17.24	2400			4/18/24	0745	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.																								

Released by: [Signature] Date: 4/17/24 Time: 1:31:53 PM

Received by: OCD: 5/29/2024 2:07:07 PM

Client: Matador Production Company					Bill To					Lab Use Only					TAT				EPA Program																																			
Project: Voni West TB					Attention: Ensolum LLC					Lab WO# E 404150					Job Number 23003-E-0001				1D 2D 3D		Standard		CWA SDWA																															
Project Manager: Ashley Giovengo					Address: on file					Analysis and Method					X				RCRA																																			
Address: 3122 National Parks Hwy					City, State, Zip:																																																	
City, State, Zip: Carlsbad NM, 88220					Phone: 575-988-0055																																																	
Phone: 575-988-0055					Email: agiovengo@ensolum.com					TPH GRO/DRO/ORO by 8015					BTEX by 8021					VOC by 8260					Metals 6010					Chloride 300.0					TCEQ TPH					BGDOC NM					GDOC TX					State				
Email: agiovengo@ensolum.com					Report due by:																																													NM CO UT AZ TX				
Time Sampled					Date Sampled					Matrix					No. of Containers					Sample ID					Lab Number					Remarks																								
13:54					4/16/2024					S					1					FS25 - 0'					21																													
13:55					4/16/2024					S					1					FS26 - 0'					22																													
12:23					4/16/2024					S					1					FS27 - 0'					23																													
12:25					4/16/2024					S					1					FS28 - 0'					24																													
13:32					4/16/2024					S					1					FS29 - 0'					25																													
13:33					4/16/2024					S					1					FS30 - 0'					26																													
13:37					4/16/2024					S					1					FS31 - 0'					27																													
13:40					4/16/2024					S					1					FS32 - 0'					28																													
13:42					4/16/2024					S					1					FS33 - 0'					29																													
13:43					4/16/2024					S					1					FS34 - 0'					30																													
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, lestrella@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: Chad Hamilton										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 4/17/24					Time 9:30					Received by: (Signature) Michelle Gonzales					Date 4-17-24					Time 0930					Lab Use Only																								
Relinquished by: (Signature) Michelle Gonzales					Date 4-17-24					Time 1617					Received by: (Signature) Andrew Mello					Date 4-17-24					Time 1730					Received on Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N																								
Relinquished by: (Signature) Andrew Mello					Date 4-17-24					Time 2400					Received by: (Signature) [Signature]					Date 4/18/24					Time 0745					T1 T2 T3																								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																				Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										AVG Temp °C 4																								
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: 4/19/2024 11:33:59AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

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

Date Received: 04/18/24 07:45
Date Logged In: 04/18/24 08:14
Due Date: 04/24/24 17:00 (4 day TAT)

Work Order ID: E404158
Logged In By: Angelina Pineda

Chain of Custody (COC)

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

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

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: Voni West TB

Work Order: E405261

Job Number: 23003-0002

Received: 5/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/29/24

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: 5/29/24

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



Project Name: Voni West TB
Workorder: E405261
Date Received: 5/20/2024 9:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/20/2024 9:30:00AM, under the Project Name: Voni West TB.

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

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - GRO	7
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Sample Summary

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/29/24 11:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS27-0.5'	E405261-01A	Soil	05/17/24	05/20/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Voni West TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/29/2024 11:50:57AM
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FS27-0.5'

E405261-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2421092	
Benzene	ND	0.0250	1	05/22/24	05/25/24	
Ethylbenzene	ND	0.0250	1	05/22/24	05/25/24	
Toluene	ND	0.0250	1	05/22/24	05/25/24	
o-Xylene	ND	0.0250	1	05/22/24	05/25/24	
p,m-Xylene	ND	0.0500	1	05/22/24	05/25/24	
Total Xylenes	ND	0.0250	1	05/22/24	05/25/24	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		05/22/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2421092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/22/24	05/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		05/22/24	05/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2422011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/24	05/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/24	05/29/24	
Surrogate: n-Nonane	109 %	50-200		05/28/24	05/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY		Batch: 2421137	
Chloride	43.3	20.0	1	05/23/24	05/26/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2024 11:50:57AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2421092-BLK1) Prepared: 05/22/24 Analyzed: 05/24/24

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

Surrogate: 4-Bromochlorobenzene-PID 7.65 8.00 95.6 70-130

LCS (2421092-BS1) Prepared: 05/22/24 Analyzed: 05/24/24

Benzene	5.26	0.0250	5.00		105	70-130			
Ethylbenzene	4.94	0.0250	5.00		98.8	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.07	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.73 8.00 96.6 70-130

LCS Dup (2421092-BSD1) Prepared: 05/22/24 Analyzed: 05/24/24

Benzene	5.63	0.0250	5.00		113	70-130	6.67	20	
Ethylbenzene	5.27	0.0250	5.00		105	70-130	6.48	20	
Toluene	5.53	0.0250	5.00		111	70-130	6.53	20	
o-Xylene	5.40	0.0250	5.00		108	70-130	6.31	20	
p,m-Xylene	10.8	0.0500	10.0		108	70-130	6.20	20	
Total Xylenes	16.2	0.0250	15.0		108	70-130	6.24	20	

Surrogate: 4-Bromochlorobenzene-PID 7.33 8.00 91.6 70-130



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2024 11:50:57AM

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 (2421092-BLK1) Prepared: 05/22/24 Analyzed: 05/24/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.44		8.00		106	70-130			

LCS (2421092-BS2) Prepared: 05/22/24 Analyzed: 05/24/24

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.79		8.00		110	70-130			

LCS Dup (2421092-BSD2) Prepared: 05/22/24 Analyzed: 05/24/24

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.7	70-130	4.09	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.93		8.00		112	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2024 11:50:57AM

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 (2422011-BLK1) Prepared: 05/28/24 Analyzed: 05/29/24

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

LCS (2422011-BS1) Prepared: 05/28/24 Analyzed: 05/29/24

Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: n-Nonane	54.7		50.0		109	50-200			

LCS Dup (2422011-BSD1) Prepared: 05/28/24 Analyzed: 05/29/24

Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132	3.55	20	
Surrogate: n-Nonane	56.6		50.0		113	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Voni West TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/29/2024 11:50:57AM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2421137-BLK1)					Prepared: 05/23/24 Analyzed: 05/26/24				
Chloride	ND	20.0							
LCS (2421137-BS1)					Prepared: 05/23/24 Analyzed: 05/26/24				
Chloride	249	20.0	250		99.6	90-110			
LCS Dup (2421137-BSD1)					Prepared: 05/23/24 Analyzed: 05/26/24				
Chloride	249	20.0	250		99.4	90-110	0.205	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Voni West TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/29/24 11:50

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

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

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



Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: <u>matador</u>				Company: <u>Ensolum</u>		Lab WO# <u>E405261</u> Job Number <u>23003-0002</u>		1D	2D	3D	Std	NM	CO	UT	TX		
Project Name: <u>Voni West TB</u>				Address: <u>on file</u>								<input checked="" type="checkbox"/>					
Project Manager: <u>Ashley G</u>				City, State, Zip:													
Address:				Phone:													
City, State, Zip: <u>Carlsbad NM</u>				Email:													
Phone: <u>575 988 0055</u>				Miscellaneous:													
Email: <u>agilv1290@ensolum.com</u>																	
Sample Information						Analysis and Method						EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRC/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
1018	5/17/24	soil	1	FS 27-0.5		1						X					
Additional Instructions: <u>Please CC: Cole, Israel, Chad, and Ashley G</u>																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sampled by: <u>Cole</u>																	
Relinquished by: (Signature) <u>24 Blev</u>		Date <u>5/17/24</u> Time <u>1426</u>		Received by: (Signature) <u>[Signature]</u>		Date <u>5-17-24</u> Time <u>1426</u>		<div>Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.</div> <div>Lab Use Only</div> <div>Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</div> <div>T1 _____ T2 _____ T3 _____</div> <div>AVG Temp °C <u>4</u></div>									
Relinquished by: (Signature) <u>[Signature]</u>		Date <u>5-17-24</u> Time <u>1730</u>		Received by: (Signature) <u>[Signature]</u>		Date <u>5/20/24</u> Time <u>0930</u>											
Relinquished by: (Signature)		Date		Received by: (Signature)		Date											
Relinquished by: (Signature)		Date		Received by: (Signature)		Date											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____											
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



envirotech

Envirotech Analytical Laboratory

Printed: 5/22/2024 1:21:50PM

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:	05/20/24 09:30	Work Order ID:	E405261
Phone:	(972) 371-5200	Date Logged In:	05/17/24 18:50	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	05/27/24 17:00 (5 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



APPENDIX E

NMOCD Notifications

From: [Jason Touchet](#)
To: [Chad Hamilton](#); [Clinton Talley](#)
Cc: [Ashley Giovengo](#); [Cole Burton](#); [Israel Estrella](#)
Subject: RE: Please Submit - 48-hour Confirmation Sampling Notification - Voni West TB - nAPP2406051763
Date: Wednesday, April 10, 2024 1:39:47 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**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#) nAPP2406051763.

The sampling event is expected to take place:

When: 04/16/2024 @ 09:00

Where: E-21-26S-31E 0 FNL 0 FEL (32.03498,-103.78557)

Additional Information: N/A

Additional Instructions: E-21-26S-31E (32.03498, -103.78557)

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

Thanks,

Jason Touchet
EHS Field Technician
Matador Resources Company
Cell: 337-652-3463
Email: jason.touchet@matadorresources.com

From: Chad Hamilton <chamilton@ensolum.com>
Sent: Wednesday, April 10, 2024 1:11 PM
To: Clinton Talley <clinton.talley@matadorresources.com>; Jason Touchet <jason.touchet@matadorresources.com>
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Cole Burton <cburton@ensolum.com>; Israel Estrella <iestrella@ensolum.com>
Subject: Please Submit - 48-hour Confirmation Sampling Notification - Voni West TB - nAPP2406051763

****EXTERNAL EMAIL****

Clint/JT,

Please see the 48-hour notice for the Voni West TB that we will begin on 04/15/24. See details below:

When: 04/15/2024 @ 09:00 MST through 04/16/2024.

Where: E-21-26S-31E (32.03498, -103.78557)

Incident Number: nAPP2406051763

Number of Samples: 34

Spill Sq. Footage: 6,680 sq. ft.

Additional Information:

Additional Instructions: (32.03498, -103.78557)

Thanks,



Chad Hamilton

Staff Geologist

940-923-0072

Ensolum, LLC

in f 

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 332058

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 332058
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406051763
Incident Name	NAPP2406051763 VONI WEST TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Voni West TB
Date Release Discovered	02/29/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	6,680
What is the estimated number of samples that will be gathered	34
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/15/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	E-21-26S-31E (32.03498, -103.78557)

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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 332058

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 332058
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	4/10/2024

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Santa Fe, NM 87505

QUESTIONS

Action 332065

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 332065
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406051763
Incident Name	NAPP2406051763 VONI WEST TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Voni West TB
Date Release Discovered	02/29/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	6,680
What is the estimated number of samples that will be gathered	34
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/16/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	E-21-26S-31E (32.03498, -103.78557)

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CONDITIONS

Action 332065

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 332065
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	4/10/2024

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Santa Fe, NM 87505

QUESTIONS

Action 344300

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 344300
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406051763
Incident Name	NAPP2406051763 VONI WEST TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Voni West TB
Date Release Discovered	02/29/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	6,680
What is the estimated number of samples that will be gathered	34
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/17/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	N/A
Please provide any information necessary for navigation to sampling site	32.03498, -103.78557

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CONDITIONS

Action 344300

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 344300
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
c_talley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	5/14/2024

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QUESTIONS

Action 348897

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 348897
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406051763
Incident Name	NAPP2406051763 VONI WEST 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	Voni West TB
Date Release Discovered	02/29/2024
Surface Owner	Federal

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: Other Separator Produced Water Released: 12 BBL Recovered: 2 BBL Lost: 10 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 348897

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	348897
	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: 05/29/2024
--	--

District I

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 348897

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 348897
	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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (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	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	7210
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	11240
GRO+DRO	(EPA SW-846 Method 8015M)	6299
BTEX	(EPA SW-846 Method 8021B or 8260B)	76.7
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	05/17/2024
On what date will (or was) the remediation complete(d)	05/17/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	6680
What is the estimated volume (in cubic yards) that will be remediated	60

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 348897

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 348897
	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: 05/29/2024
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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 348897

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 348897
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 348897

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	348897
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	344300
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/17/2024
What was the (estimated) number of samples that were to be gathered	34
What was the sampling surface area in square feet	6680

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	6680
What was the total volume (cubic yards) remediated	60
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	0
What was the total volume (in cubic yards) reclaimed	0
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: 05/29/2024
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QUESTIONS, Page 7

Action 348897

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	348897
	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 348897

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 348897
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	6/11/2024