

May 8, 2024

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

Re: Remediation Work Plan Addendum

Merchant CTB

Incident Numbers nAPP2330461091

Lea County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Remediation Work Plan Addendum* (RWPA) to document assessment and soil sampling activities performed at the Merchant Central Tank Battery (CTB) (Site) in Unit L, Section 35, Township 21 South, Range 33 East, in Lea County, New Mexico (Figure 1). The purpose of the Site assessment and soil sampling activities was to address impacted and waste-containing soil resulting from a facility fire at the Site. Matador is submitting this RWPA, describing analytical results from soil sampling activities associated with Incident Number nAPP2330461091 and proposing additional assessment, soil sampling, and excavation activities at the Site prior to submitting a *Closure Request*.

On November 16, 2023, Talon/LPE personnel were onsite to conduct an initial site assessment and to perform delineation sampling activities. Talon/LPE submitted a Remediation Work Plan (RWP) on March 1, 2024, to the New Mexico Oil Conservation Division (NMOCD); however, the RWP was denied for the following reasons:

Remediation plan denied. Inadequate vertical and horizontal delineation. Horizontal delineation must meet the requirements of the reclamation standards 19.15.29.13 NMAC (600 mg/kg Cl, 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg benzene) for the upper 4 feet of the impacted area. Continue to horizontally delineate the release, in order to determine the edge of the release. S-15 and S-21 need to be vertically delineated below the Table 1 Closure Criteria. The Figure showing planned excavation areas needs updated to include S-21, as contaminants there exceed Table 1 Closure Criteria. In that same Figure, S-15 shows a planned 6' excavation, however the report states it "will be excavated down to 4 and a half (4.5) feet bgs." Which is correct? A variance request needs to be included with your remediation plan resubmittal for sampling at a frequency other than every 200 square feet. Resubmit plan to the OCD by May 14, 2024.

This RWPA addressed NMOCD's concerns regarding horizontal and vertical delineation sampling per the New Mexico Administrative Code's (NMAC's) reclamation standard of Title 19, Chapter 15, Part 29, Section 13 (19.15.29.13) and respectfully requests a confirmation soil sampling variance on a frequency of one composite sample for every 400 square feet from the floor of the excavation and at a frequency of every 200 square feet from the sidewalls of the excavation.



SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Lea County, New Mexico (32.44185°, -103.54746°) and is associated with oil and gas exploration and production operations on Private Land.

On October 31, 2023, a facility fire resulted in the release of over 25 barrels (bbls) of crude oil and produced water onto the caliche pad. This release impacted areas on-pad and off-pad; released fluids were not recovered. Matador reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on November 6, 2023 (Appendix A). The release was assigned Incident Number nAPP2330461091.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of 19.15.29.12 NMAC. Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization, see Appendix A. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-1887 POD 1, located approximately 0.48 miles east of the Site. The well had a reported depth to groundwater greater than 103 feet below ground surface (bgs) and a total depth of 103 feet bgs. All wells used for depth to groundwater determination are presented in Figure 1. The referenced well record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 0.69 miles southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified in Figure 1.

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

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

The reclamation requirement will be applied to the top 4 feet in the impacted area off-pad per 19.15.29.13 NMAC.

SITE ASSESSMENT ACTIVITIES

Beginning on November 16, 2023, Talon/LPE personnel were onsite to evaluate the release extent based on information provided on the Form C-141 and visual observations. Discrete soil samples were collected via hand auger from 22 samples locations: Five sample locations off-pad (S-1 through S-5) and 17 sample locations on-pad (S-6 through S-22). Four boreholes were advanced directly beneath the tank battery containment on-pad (TB-1 through TB-4) to a depth of 4 feet bgs in sample locations



TB-1 through TB-3 and to 2 feet bgs in TB-4. Sample locations S-1 through S-5 all exceeded the reclamation requirement for off-pad areas impacted by a release and would require additional vertical delineation; however, sample location S-2 was vertically delineated at 2 feet bgs. Seven sample locations on-pad (S-8, S-12, S-15, and S-18 through S-21) and one sample location beneath the containment liner (TB-4) were not fully delineated in accordance with the reclamation requirement. Two borehole sample locations (S-15 and S-21) exceed the Site Closure Criteria at 1-foot bgs.

On March 29, 2024, and April 1, 2024, Ensolum personnel were onsite to continue vertical delineation sampling and to advance the sample locations S-1. S-3, S-4, S-5, S-12, S-15, and S-18 through S-21 vertically via backhoe. Five horizontal delineation soil samples (SS01 through SS05) were collected from around the release extent at ground surface. Vertical delineation sample location TB-4 could not be advanced further with a backhoe due to the proximity of the sample location to tank battery equipment. The delineation soil samples were field screened for TPH using a PetroFLAG® soil analyzer system and chloride using Mohr method titration. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was collected, and a photographic log is included in Appendix C.

On May 1, 2024, Ensolum personnel returned to the Site to collect two additional lateral delineation soil samples (SS06 and SS07) at ground surface and to advance vertical delineation sample locations S-8 and S-11 to 4.5 feet and 5 feet, bgs respectively. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix D.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples S-18, S-19 2 ft and S-21 @ 2 ft, S-20 @ 3 ft, S-1 @ 4 ft, S-8@ 4.5', S-11, S-12, and S-15 @ 5 ft, S-3@ 6 ft, S-4 @11', bgs were all in compliance with the reclamation standard and with the Site Closure Criteria. Laboratory analytical results from horizontal delineation samples (SS01 through SS07) were all in compliance with the reclamation standard at ground surface. Vertical delineation soil samples TB-4 was in compliance with the Site Closure Criteria however chloride concentrations exceeded the reclamation requirement at 2 feet bgs. Laboratory analytical results for delineation soil samples are summarized in Tables 1 through 3 and the complete laboratory analytical reports are included in Appendix E.

PROPOSED REMEDIATION WORK PLAN ADDENDUM

The results of the delineation soil sampling suggest soil containing elevated concentrations of chloride exist in the off-pad area south of the caliche pad, which measures approximately 16,862 square feet in size. The off-pad area would be excavated in accordance with the reclamation requirement or to a depth of 4 feet bgs. The impacted area on-pad measures approximately 114,810 square feet with concentrations of TPH exceeding the Site Closure Criteria in sample locations S-15 and S-21. The area on-pad would require a surface scrape and an excavation in sample locations S-15 to a depth of 5 feet bgs and 2 feet bgs in sample location S-21. Based on delineation soil sampling completed beneath the tank battery containment, all COC were in compliance with the Site Closure Criteria at 1-foot bgs; however, surface equipment will need to be moved in order to complete vertical delineation sampling in accordance with the reclamation requirement at a depth greater than 2 feet bgs in the vicinity of sample



location TB-4. Matador proposes excavation of the impacted soil and Ensolum estimates approximately 6,383 cubic yards of soil will be excavated from the impacted areas. In

Matador proposes to complete the following remediation activities:

- Complete vertical delineation near sample location TB-4 to the strictest Closure Criteria per NMOCD Table 1.
- Excavation of impacted soil on the south side of the caliche pad to a depth of 4 feet bgs. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with the reclamation standard set forth in 19.15.29.13 NMAC. The estimated excavation extent is shown on Figure 3.
- A surface scrape of the impacted area on-pad to a depth of 0.5 feet bgs or until field screening
 of soil indicates the floor of the excavation will be in compliance with the Closure Criteria.
- Confirmation samples will be collected at a variance frequency of every 400 square feet from the
 floor of the excavation and at a frequency of every 200 square feet from the sidewalls of the
 excavation. Based on the areal extent of the two excavation areas, the variance request will be
 equally protective of human health, the environment, and groundwater since depth to ground
 water is reasonably estimated to be greater than 100 feet bgs, there are no other sensitive
 receptors in the vicinity of the Site, and impacted and waste-containing soil has been adequately
 delineated to demonstrate compliance with an expanded frequency of confirmation sampling.
- An estimated 6,383 cubic yards of impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions.

Matador will complete the proposed soil sampling activities within 90 days of the date of approval of this Work Plan by the NMOCD.

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

Sincerely, **Ensolum**, **LLC**

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



Appendices:

Figure 1 Figure 2 Figure 3	Site Receptor Map Delineation Soil Sample Locations Proposed Excavation Extent
Table 1	Soil Sample Analytical Results (Delineation Soil Samples - Off-Pad)
Table 2	Soil Sample Analytical Results (Delineation Soil Samples - On-Pad)

Table 3 Soil Sample Analytical Results (Delineation Soil Samples - Tank Battery Containment)

Appendix A Form C-141
Appendix B Well Log and Record
Appendix C Photographic Log

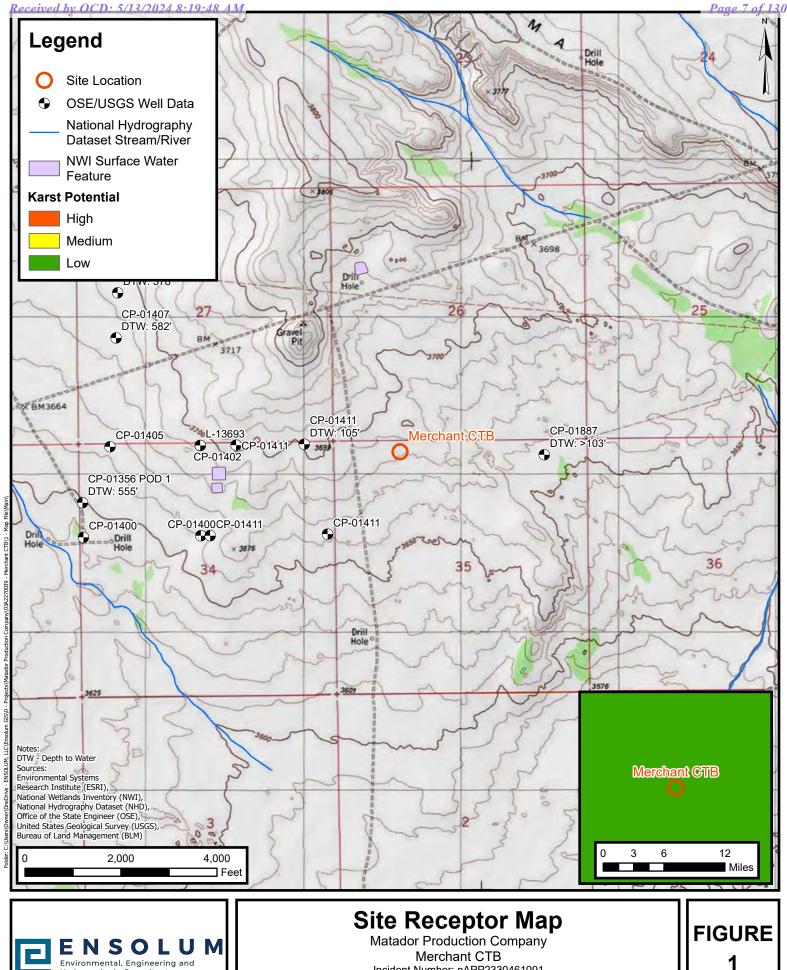
Appendix D Lithologic Soil Sampling Logs

Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix F NMOCD Correspondence



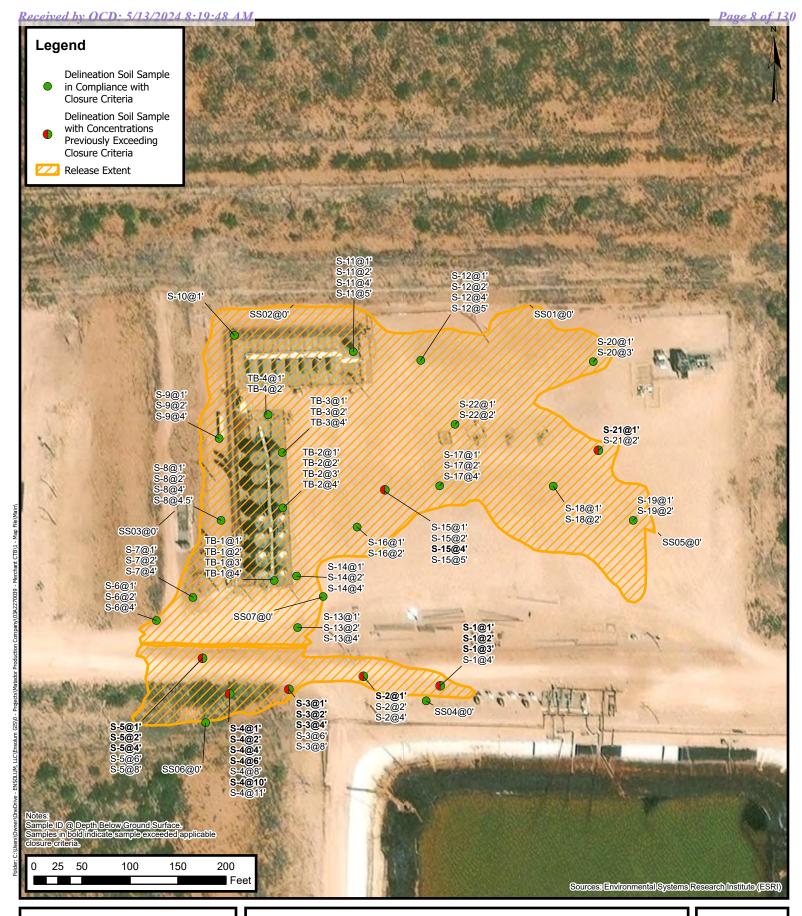
FIGURES





Incident Number: nAPP2330461091 Unit L, Section 35, T 21S, R 33E Lea County, New Mexico

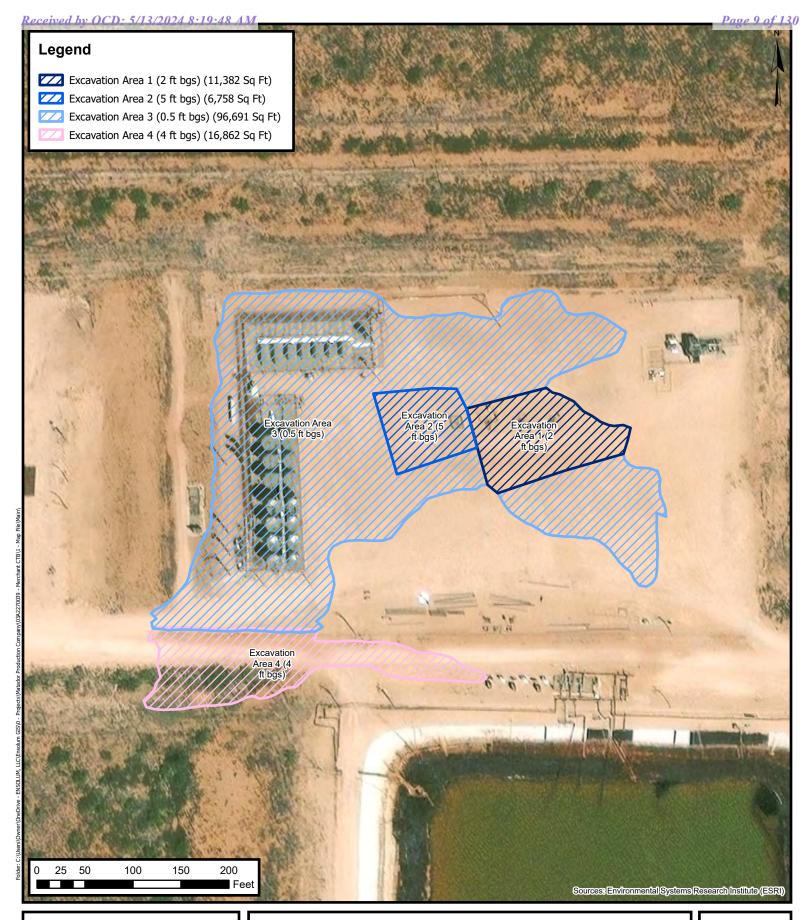
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Delineation Soil Sample Locations

Matador Production Company Merchant CTB Incident Number: nAPP2330461091 Unit L, Section 35, T 21S, R 33E Lea County, New Mexico FIGURE 2





Proposed Excavation Extent

Matador Production Company Merchant CTB Incident Number: nAPP2330461091 Unit L, Section 35, T 21S, R 33E Lea County, New Mexico FIGURE 3



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Merchant CTB

Matador Production Company Lea County, New Mexico

				Lea	County, New Me	XICO				
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
				on Soil Samples	(Off-Pad)					
S-1	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	9,010
S-1	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	8,860
S-1	11/16/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	8,100
S-1	4/1/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	22.6
S-2	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,360
S-2	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
S-2	11/16/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
S-3	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	9,010
S-3	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	4,500
S-3	11/16/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	6,090
S-3	3/29/2024	6	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	247
S-3	3/29/2024	8	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	285
S-4	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	7,630
S-4	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	8,960
S-4	11/16/2023	4	< 0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	3,470
S-4	3/29/2024	6	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,150
S-4	3/29/2024	8	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	552
S-4	3/29/2024	10	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,560
S-4	3/29/2024	11	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	361
S-5	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	6,820
S-5	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	4,220
S-5	11/16/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	6,940
S-5	3/29/2024	6	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	260
S-5	3/29/2024	8	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	166



TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS

Merchant CTB

Matador Production Company
Lea County, New Mexico

				Lea	County, New Me	xico				
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
				Delineatio	n Soil Samples	(On-Pad)				
S-6	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	2,940
S-6	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	879
S-6	11/16/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	26.3
S-7	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,850
S-7	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	2370
S-7	11/16/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
S-8	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,530
S-8	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	2,710
S-8	11/16/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,500
S-8	5/1/2024	4.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	53.9
S-9	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	190
S-9	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	37.6
S-9	11/16/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	172
S-10	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	58.6
S-11	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	2,470
S-11	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	214
S-11	11/16/2023	4	<0.0250	<0.0250	53.9	94.3	<50.0	148.2	148.2	409
S-11	5/1/2024	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	48.3
S-12	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,170
S-12	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,240
S-12	11/16/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	1,040
S-12	4/1/2024	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	147
S-13	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	70.3
S-13	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
S-13	11/16/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	61.8
S-14	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	69.0
S-14	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
S-14	11/16/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	39.0
S-15	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	29.9
S-15	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	195
S-15	11/16/2023	4	<0.0250	<0.0250	1,590	3,870	<50.0	5,460	5,460	5,480
S-15	3/29/2024	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	38



TABLE 2 - CONT'D

SOIL SAMPLE ANALYTICAL RESULTS

Merchant CTB

Matador Production Company Lea County, New Mexico

				Lea	County, New Me	AICU						
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 (On-Pad)											
S-16	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	958		
S-16	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	58.3		
S-17	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	45.1		
S-17	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	63.7		
S-17	11/16/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	65.9		
S-18	11/16/2023	1	<0.0250	<0.0250	<20.0	35.7	<50.0	35.7	35.7	15,500		
S-18	4/1/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0		
S-19	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	6,850		
S-19	4/1/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	121		
S-20	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	12,500		
S-20	4/1/2024	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	25.2		
S-21	11/16/2023	1	<0.0250	<0.0250	<20.0	3,100	<50.0	3,100	3,100	3,500		
S-21	4/1/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0		
S-22	11/16/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	239		
S-22	11/16/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	146		



TABLE 3

SOIL SAMPLE ANALYTICAL RESULTS

Merchant CTB

Matador Production Company Lea County, New Mexico

Sample Designation Date Depth Geet bgs) Benzene (mg/kg) Total BTEX (mg/kg) TPH DRO (mg/kg) TPH DRO (mg/kg) (mg/kg) (mg/kg) (mg/kg)		Chloride (mg/kg)
	2,500	20,000
NMOCD Table I Closure Criteria (NMAC 19.15.29) 10 50 NE NE NE 1,000		
Delineation Soil Samples (Tank Battery Containment)		<u>'</u>
TB-1 11/16/2023 1 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	747
TB-1 11/16/2023 2 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	116
TB-1 11/16/2023 3 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	<20.0
TB-1 11/16/2023 4 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	<20.0
TB-2 11/16/2023 1 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	191
TB-2 11/16/2023 2 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	1,870
TB-2 11/16/2023 3 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	25.5
TB-2 11/16/2023 4 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	35.1
TB-3 11/16/2023 1 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	2,260
TB-3 11/16/2023 2 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	3,260
TB-3 11/16/2023 4 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	530
TB-4 11/16/2023 1 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	10,600
TB-4 11/16/2023 2 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	921
Delineation Soil Samples (Laterals)		
SS01 4/1/2024 0 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	<20.0
SS02 4/1/2024 0 <0.0250 <0.0250 <20.0 25.3 <50.0 25.3	25.3	129
SS03 4/1/2024 0 <0.0250 <0.0250 <20.0 45.9 <50.0 45.9	45.9	69.4
SS04 4/1/2024 0 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	130
SS05 4/1/2024 0 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	197
SS06 5/1/2024 0 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	31.4
SS07 5/1/2024 0 <0.0250 <0.0250 <20.0 <25.0 <50.0 <20.0	<20.0	24.3

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

Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2330461091
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party Ma	tador Resources		(OGRID 228937				
Contact Nan	ne Clin	iton Talley		(Contact Te	lephone 337	-319-8398		
Contact ema	^{iil} clin	nton.talley@mat	adorresources.	.com	ncident # ((assigned by OCD)	NAPP2330461091		
Contact mail	ling address	5347 N. 26t	h Street 2nd Flo	oor, Artes	sia, NM 8	8210			
			Location	ı of Rel	ease So	ource			
Latitude 32.	.44185		(NAD 83 in de	Lo lecimal degree	ongitude _ es to 5 decim	-103.54746 aal places)			
Site Name M	erchant CT	 В		S	ite Type	Fire			
Date Release				A	API# (if appl	licable)			
II.: L L	Cartian	Tarratia	Danas		Carre	4	1		
Unit Letter Section Township Range					Coun	ty			
L	35	21S	33E	Lea					
Surface Owne	er: State	Federal T	ribal 🔽 Private ((Name:)		
			Nature an	d Volu	me of F	Release			
				ch calculations	s or specific	justification for the	volumes provided below)		
Crude Oi		Volume Release	ed (bbls) Unkno	own			vered (bbls) Unknown		
✓ Produced	l Water	Volume Release	ed (bbls) Unkno	own		Volume Reco	vered (bbls) Unknown		
		Is the concentra	tion of dissolved	chloride in	the	Yes N	O		
Condensa	ate	Volume Release				Volume Reco	vered (bbls)		
Natural C	Gas	Volume Release	ed (Mcf)			Volume Reco	vered (Mcf)		
Other (de	escribe)	Volume/Weight	t Released (provid	de units)		Volume/Weig	tht Recovered (provide units)		
Cause of Rel		ire on location.							

Received by OCD: 5/13/2024 8:19:48 AM State of New Mexico
Page 2 Oil Conservation Division

Page 17 of 130

Incident ID	NAPP2330461091
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?							
release as defined by 19.15.29.7(A) NMAC?									
	Fire on location, release grea	ter than 25 bbl							
✓ Yes ☐ No									
If YES, was immediate no	Lotice given to the OCD? By whom? To when the OCD?	om? When and by what means (phone, email, etc)?							
Yes by NC)R								
	Initial Ro	esponse							
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 rele	ease has been stopped.								
☑ The impacted area ha	s been secured to protect human health and	the environment.							
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.							
✓ All free liquids and re	ecoverable materials have been removed and	I managed appropriately.							
If all the actions described	d above have <u>not</u> been undertaken, explain	vhy:							
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence re	emediation immediately after discovery of a release. If remediation							
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred							
		lease attach all information needed for closure evaluation.							
		pest of my knowledge and understand that pursuant to OCD rules and actions and perform corrective actions for releases which may endanger							
		CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In							
		responsibility for compliance with any other federal, state, or local laws							
C	Talloy	EUC Cuparidoor							
Printed Name: Clinton	Talley	Title: EHS Supervisor							
Signature:	Tallsy @matadorresources.com	Date: 11/03/2023							
email: clinton.talley@	matadorresources.com	Telephone: 337-319-8398							
OCD Only									
		_							
Received by:		Date:							



APPENDIX B

Well Log and Record



	OSE POD NO	•	NO.)			WELL TAG ID NO.			OSE FILE NO	S).			
GENERAL AND WELL LOCATION	POD1 (T	W-1)				n/a			CP-1887				
ATI	WELL OWN			•		-			PHONE (OPTI	ONAL)			
OC.	Advanced	Energy	Par	rtners					832.672.470	00			
TT	WELL OWN	ER MAIL	ING .	ADDRESS					CITY		STATE		ZIP
/EL	11490 Wes	stheime	r Ro	d. Stuit 950					Houston		TX	77077	
N Q				DIT	GREES	MINUTES	SECON	me	<u> </u>				
AN	WELL			DE	32	26	29.	53	A 4 COT TO 4 CO.	PROVIDED, OVE TENE	MI OF A	TEGOVED.	
Ψ	LOCATIO	<u>_</u>	LATI	TUDE				N		REQUIRED: ONE TENT	H OF A	SECOND	
KER	(FROM GF	'S)	LON	GITUDE	103	32	14.:	57 W	- DATOM RE	QUIRED: WGS 84			
GE	DESCRIPTION	ON RELA	TING	WELL LOCATION TO	STREET ADDR	ESS AND COMMON	LANDM	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVA	ILABLE	
1.	NE NE NE	E Sec. 3	5 T	21S R33E									
	LICENSE NO)		NAME OF LICENSED	DRILLER					NAME OF WELL DRI	LINGC	OMPANY	
	124			NAME OF BIOLINGED		ackie D. Atkins						Associates, I	nc.
	DRILLING S	TAPTED	-	DRILLING ENDED	DEPTH OF CO	MPLETED WELL (FI	<u> </u>	DODE NO	LE DEPTH (FT)	DEPTH WATER FIRS	T PNOO	INTEDED (CT)	
	10/07/			10/07/2021		ary well materia			103	DEFIN WATER FIRE	n/a		
										OTA TO A VALAR TO A VALAR			
_	COMPLETED WELL IS: ARTESIAN DRY HOLE SHALLOW (UNCONFINED) STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a												
TION	ORILLING FLUID: AIR MUD ADDITIVES – SPECIFY:												
2. DRILLING & CASING INFORMATION	DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY: Hollow Stem Auger												
FOF	DEDUTT	(6 . 1			Lavania		,an T				r :: ::		
Z	DEPTH			BORE HOLE	CASING	MATERIAL AND GRADE	VOR		ASING	CASING		NG WALL	SLOT
N	FROM	TC	,	DIAM		each casing string,			NECTION TYPE	INSIDE DIAM.	THICKNESS (inches)		SIZE (inches)
CAS		- 12		(inches)	·	sections of screen)			ling diameter)	(inches)	,	шсись)	(mones)
8	0	10	3	±6.5		Boring- HSA							-
NG.								_					
IT													
DR													
7.													
											g and ang	ነባን ሐብወንን	
									,	SOF OU MO	OWE	Paran Pro Vince Care	
,													
	DEPTH	(feet ha	n	BORE HOLE	7.70	ST ANNULAR SE	AT MA	TEDIAI /	AND	AMOUNT	Ī	METHO	D OF
7	FROM	TO	_	DIAM. (inches)		VEL PACK SIZE-				(cubic feet)		PLACEM	
ANNULAR MATERIAL	FROM	10		+						(
VTE													
M													
A.				ļ	 								
5				ļ <u>.</u>									
AN						<u> </u>							
ы.													
				<u> </u>	l					l			
FOR	OSE INTER	NAL U	SE						WR-2	0 WELL RECORD	& LOG (Version 06/3	0/17)
FILE	NO.	Έ.	- 1	487		POD NO		\mathcal{T}	TRN	777	54	59	
LOC	ATION	,		215	,33E	35.2:	22	$\overline{}$	WELL TAG I	DNO.		PAGE	1 OF 2

											
	DEPTH (1	feet bgl) TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATERIAL ENR-BEARING CAVITIES OF	R FRAC	TURE ZONES		WAT BEARI (YES /	NG?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	19	19	Sand, Fine-grain	ned, poorly graded, with Cali	che " Ta	nnish White		Y	√N	·
	19	29	10	Sand	, Fine-grained, poorly grade	i, Brow	n		Y	√N	
	29	103	74	Sand, Fine-gra	nined, Poorly graded, with cla	ay, Redd	lish Brown		Y	√N	
					v · · · · · · · · · · · · · · · · · · ·	-			Y	N	
						-			Y	N	
ا د									Y	N	
VEL									Y	N	
OF V					·····		<u></u>		Y	N	
90							Y	N			
CL		-			\top	Y	N				
Ō					·		Y	N			
EOI					· · · · · · · · · · · · · · · · · · ·				Y	N	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
200								_	Y	N	
4. HYDROGEOLOGIC LOG OF WELL							.	\dashv	Y	N	
4. H									Y	N	
								_	Y	N	
			<u> </u>						Y	N	
									Y	N	
									Y	N	
									Y	N	
			•						Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING	G STRATA:			TOTAL	ESTIM	ATED	
	PUM	P 🔲 A	IR LIFT	BAILER OT	HER - SPECIFY:			WELL	YIELD	(gpm):	0.00
NOISI	WELL TES				A COLLECTED DURING TOWING DISCHARGE AN						
TEST; RIG SUPERVIS	MISCELLA	NEOUS INF			als removed and the soil b ce, then hydrated bentoni						
T; R							m	CT Of	7 8/17/1	יכתכי כי	042:17
TES	PRINT NAM	ME(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE SUPERVIS	SION O					
vi	Shane Eldri	dge, Carme	elo Trevino, Car	neron Pruitt							
SIGNATURE	CORRECT	RECORD O	F THE ABOVE I	DESCRIBED HOLE AN	EST OF HIS OR HER KNO D THAT HE OR SHE WILL PLETION OF WELL DRILL	L FILE '					
6. SIGNA	Jack &	Itkins		Jac	ckie D. Atkins	_			10/27	/2021	
		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME					DATE	
FOI	R OSE INTER	NAL USE					WR-20 WELL	L RECO	ORD & I	OG (Ver	rsion 06/30/2017)
	E NO.		· · ·		POD NO.		TRN NO.			(10)	
LO	CATION			'		WELL	TAG ID NO.				PAGE 2 OF 2



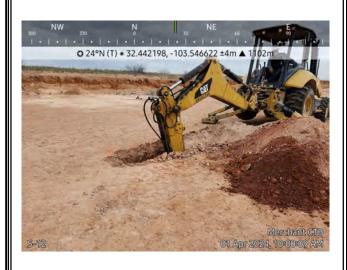
APPENDIX C

Photographic Log

ENSOLUM

Photographic Log

Matador Production Company
Merchant CTB
Incident Number: nAPP2330461091





Photograph 1 Date: 04/01/2024

Description: Delineation Potholing

View: Northeast

Photograph 2 Date: 04/01/2024

Description: Delineation Potholing

View: East





Photograph 3 Date: 04/01/2024

Description: Delineation Potholing

View: Southwest

Photograph 4 Date: 04/01/2024

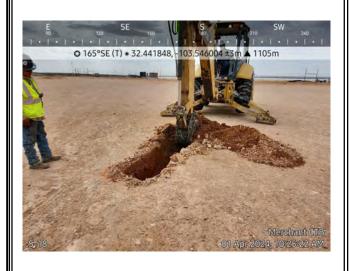
Description: Delineation Potholing

View: West



Photographic Log

Matador Production Company
Merchant CTB
Incident Number: nAPP2330461091





Photograph 5 Date: 04/01/2024

Description: Delineation Potholing

View: South

Photograph 6 Date: 04/01/2024

Description: Delineation Potholing

View: West





Photograph 7 Date: 04/01/2024

Description: Delineation Potholing

View: South

Photograph 8 Date: 04/01/2024

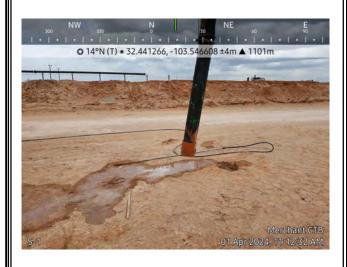
Description: Delineation Sampling

View: North

ENSOLUM

Photographic Log

Matador Production Company
Merchant CTB
Incident Number: nAPP2330461091





Photograph 9 Date: 04/01/2024

Description: Delineation Sampling

View: North

Photograph 10 Date: 04/01/2024

Description: Delineation Sampling

View: East





Photograph 11 Date: 04/01/2024

Description: Delineation Sampling

View: Northeast

Photograph 12 Date: 04/01/2024

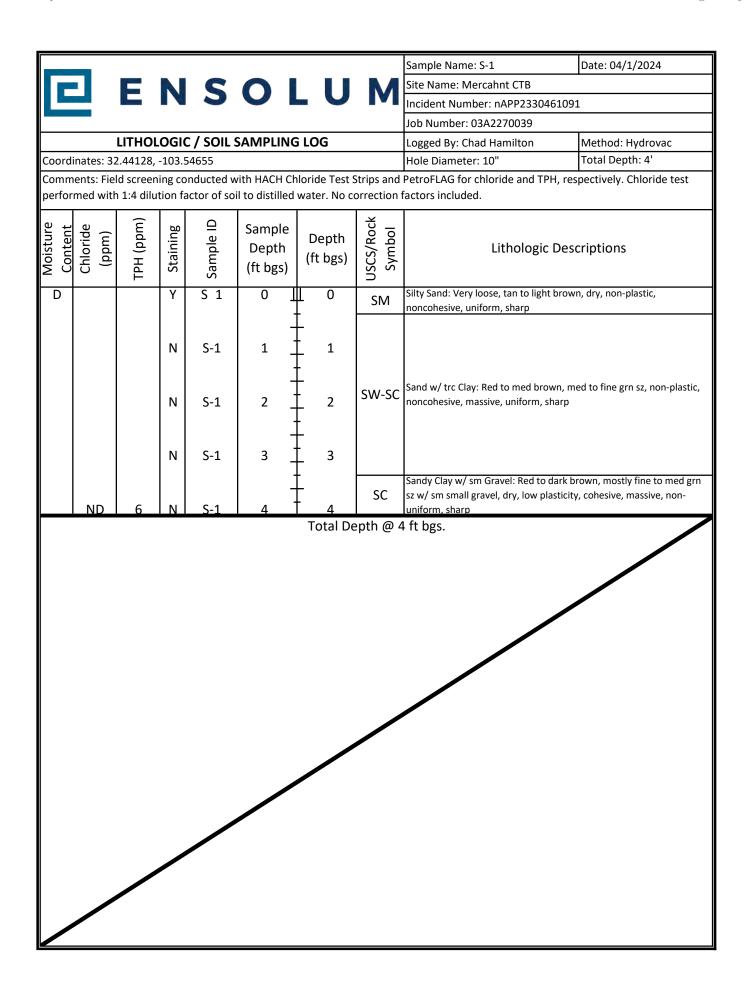
Description: Delineation Sampling

View: West



APPENDIX D

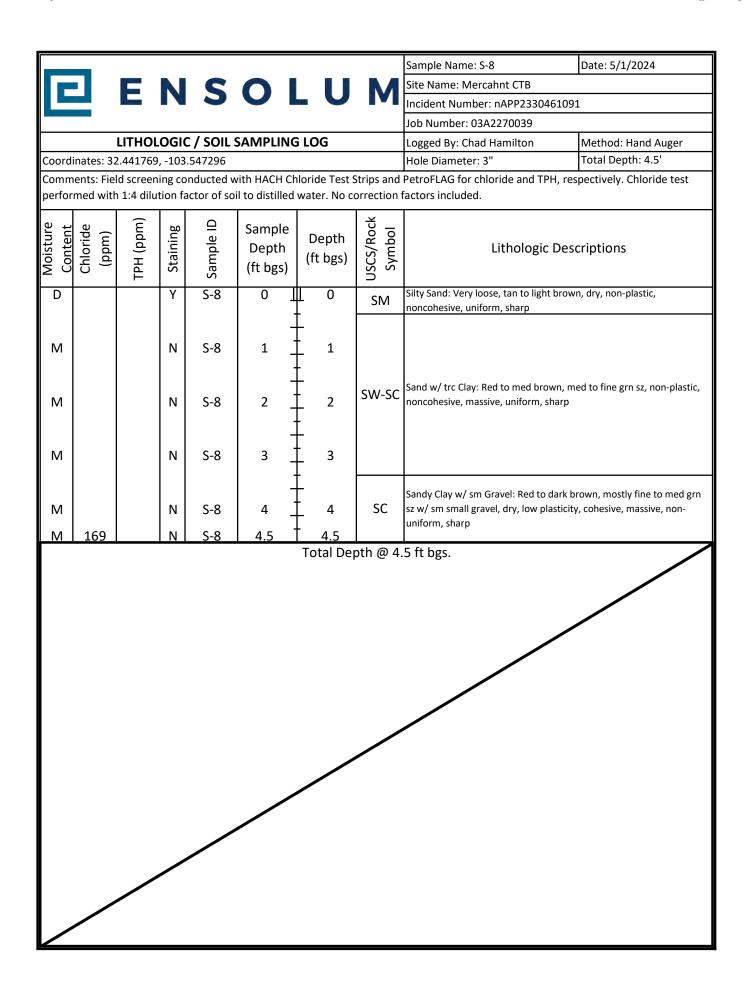
Lithologic Soil Sampling Logs

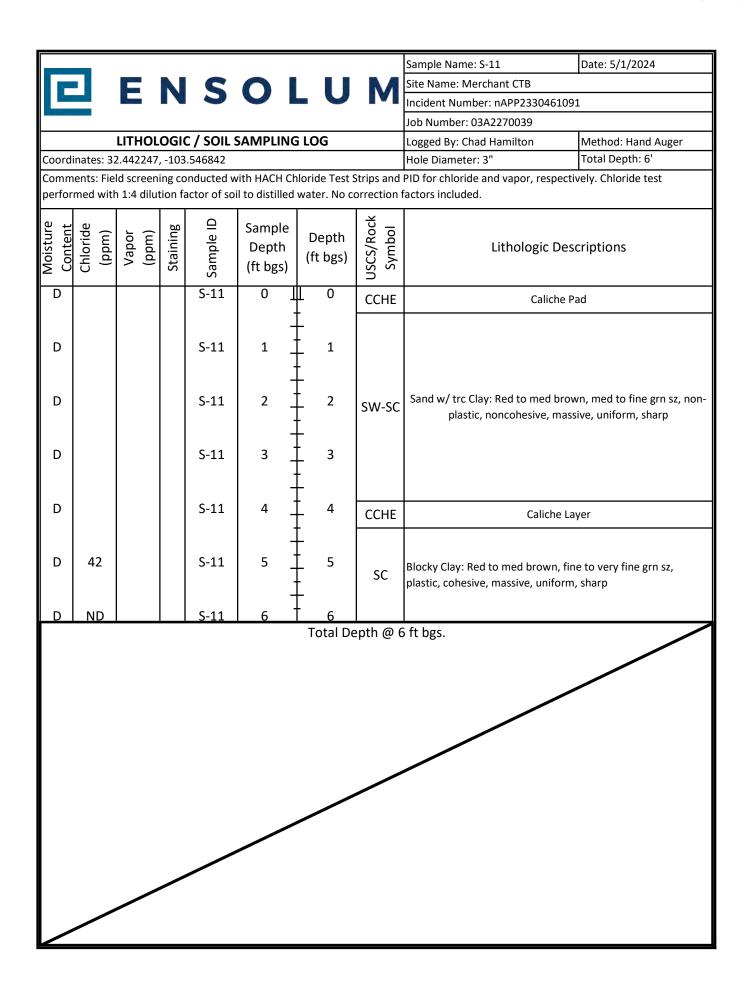


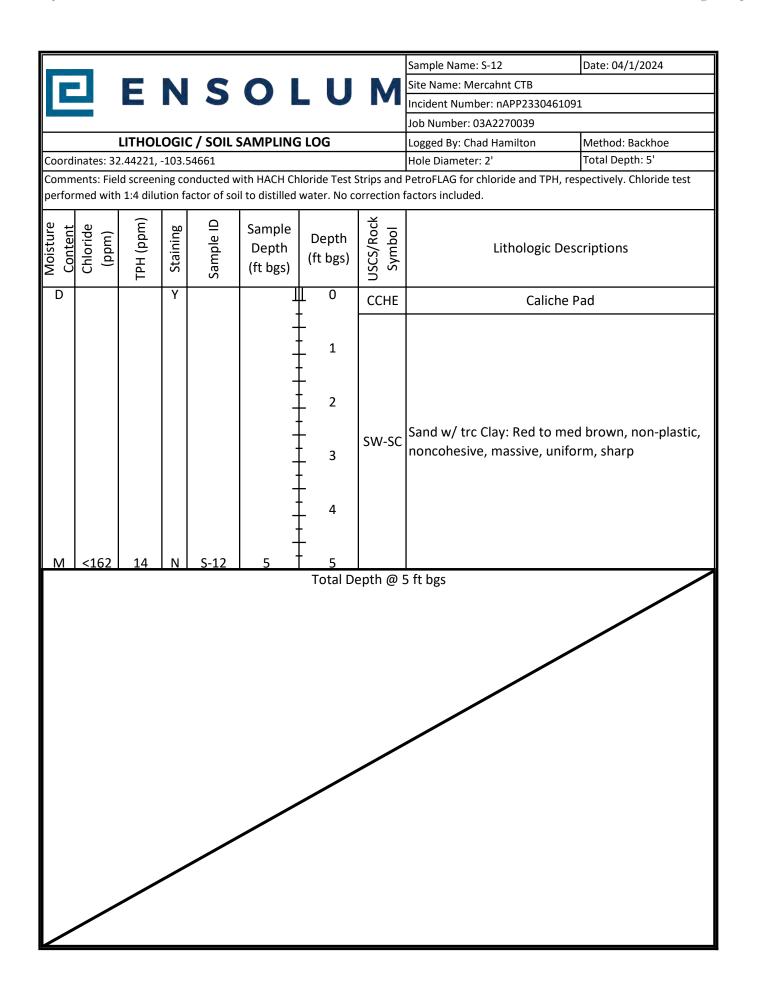
	-1							Sample Name: S-3	Date: 04/1/2024			
			N	S	0 1	LU	M	Site Name: Mercahnt CTB Incident Number: nAPP2330461091				
			_									
		LITUO	06:4	. / 60!! /	CARADITA			Job Number: 03A2270039				
					SAMPLING	LOG		Logged By: Chad Hamilton	Method: Backhoe Total Depth: 9'			
	inates: 32				:+h !!AC!! Ch	la sida Taak (`*	Hole Diameter: 2' PetroFLAG for chloride and TPH, r	·			
								factors included.	espectively. Chloride test			
Moisture Chloride Chloride Chloride Chloride Chloride Chloride (ppm) Debth (tt pgs) Symbol Sy												
D			Υ			0	SM	Silty Sand: Very loose, tan to light bro noncohesive, uniform, sharp	own, dry, non-plastic,			
M					- - - - - -	1 2			med to fine grn sz. non-plastic			
M					- - - - -	3	SW-SC	Sand w/ trc Clay: Red to med brown, med to fine grn sz, nor noncohesive, massive, uniform, sharp				
D	2,106		N	S-3	5 <u>-</u>	- - - 5						
D	280		N	S-3	6 _	6						
D	784		N	S-3	7 <u>-</u>	- 7 -	ССНЕ	Caliche Rock: lightly cemented caliches mall gravel, dry, non-plastic, noncohesharp				
D	316	33	N	S-3	8 _	- 8						
D	520		N	S-3	9 -	9 Total [Depth 9 t	ft bgs.				

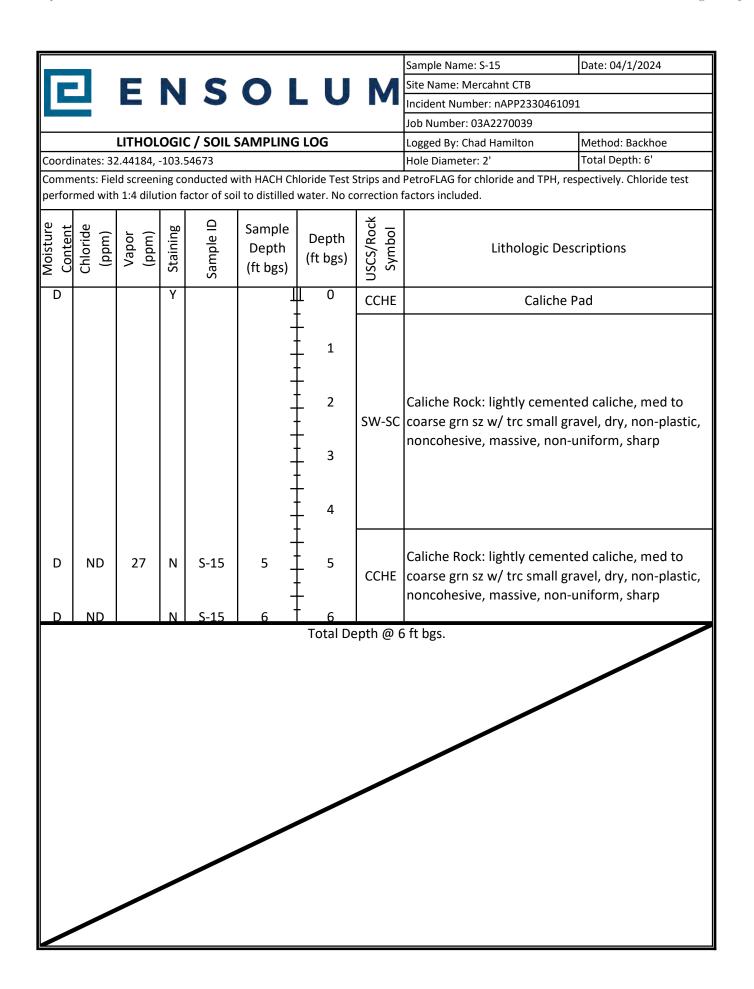
								Sample Name: S-4	Date: 04/1/2024	
			N	C	0 1		M	Site Name: Mercahnt CTB		
						Incident Number: nAPP2330461091				
						Job Number: 03A2270039				
		LITHOL	.OGI	C / SOIL	SAMPLING	Logged By: Chad Hamilton	y: Chad Hamilton Method: Backhoe			
Coord	inates: 32	2.44127,	-103.5	4727		Hole Diameter: 2'	Total Depth: 11'			
II	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)	ТРН (ррт)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
D			Υ		1	0	SM	Silty Sand: Very loose, tan to light brown, dry, non-plastic, noncohesive, uniform, sharp		
					- - - - - - -	1 2	SW-SC	Sand w/ trc Clay: Red to med brown, n	ned to fine grn sz, non-plastic,	
					- - - - -	3		notecines, massive, annothi, statip		
D	1,025		N	S-4	5 <u>-</u>	- - 5				
D	862		N	S-4	6 <u>-</u>	6				
D	ND		N	S-4	7 <u>-</u>	7	CCHE	Caliche Rock: lightly cemented caliche, med to coarse grn sz w/ trc small gravel, dry, non-plastic, noncohesive, massive, non-uniform, sharp		
D	644		N	S-4	8 _	8				
D	319		N	S-4	9 _	9				
D	1,842		N	S-4	10	10				
D	465	61	N	S-4	11	11				
						Total De	pth @ 1	1 ft bgs.		
	1 2 1 1 1 2 pm C 12 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 1 2									

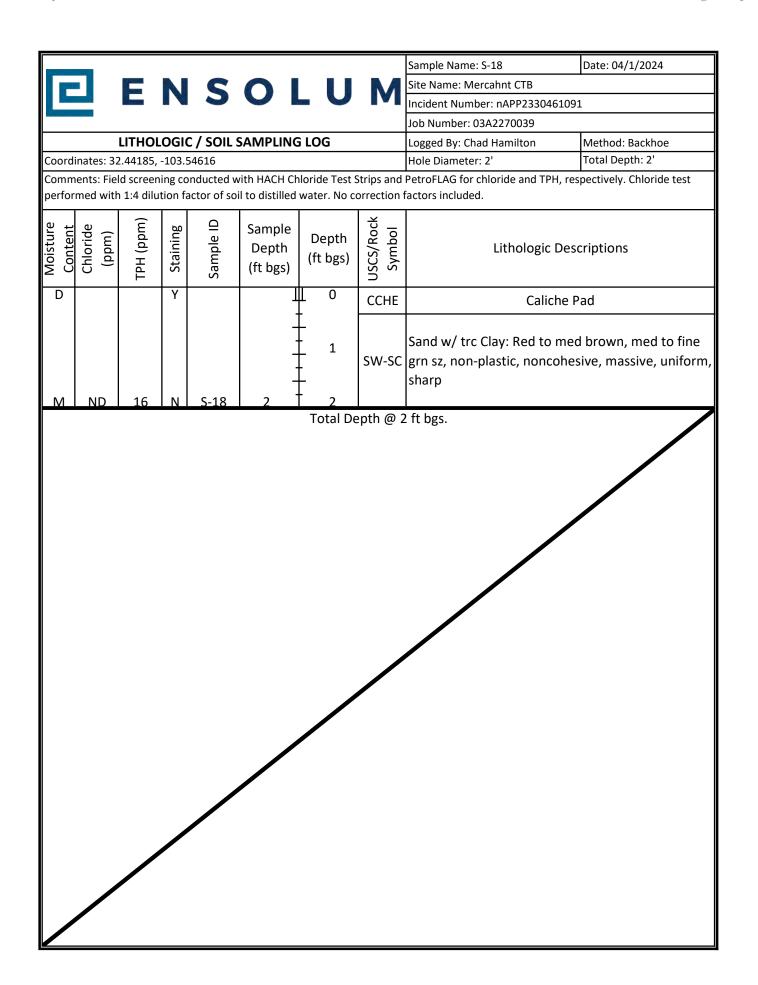
								Sample Name: S-5	Date: 03/29/2024	
								Site Name: Mercahnt CTB	Dutc. 03/23/2024	
			N	3	U	LU	V	Incident Number: nAPP23304	61091	
						Job Number: 03A2270039				
		LITHOL	OGIO	: / SOIL S	SAMPLING	Logged By: Chad Hamilton	Method: Backhoe			
Coord	inates: 32					Hole Diameter: 2'	Total Depth: 9'			
Comm	ents: Fiel	ld screen	ing co	nducted w				PetroFLAG for chloride and TP factors included.	H, respectively. Chloride test	
Moisture Content	Chloride (ppm)	(шаа) нат	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
D			Y			0	SM	Silty Sand: Very loose, tan to light brown, dry, non-plastic, noncohesive, uniform, sharp		
					- - - - - - - -	2	SW-SC	Sand w/ trc Clay: Red to med bro massive, uniform, sharp	wn, non-plastic, noncohesive,	
					- - - -	4				
D	ND		N	S-5	5 <u> </u>	5	CCHE	Caliche Rock: lightly cemented caliche, med to coarse grn sz w/ trc small gravel, dry, non-plastic, noncohesive, massive, non-uniform, sharp		
D	280		N	S-5	6 _	6				
D	862		N	S-5	7 _	7				
D	ND	49	N	S-5	8 _	8				
D	ND		$ _{N} $	S-5	9 -	9				
						Total De	epth @ 9	oft bgs.		

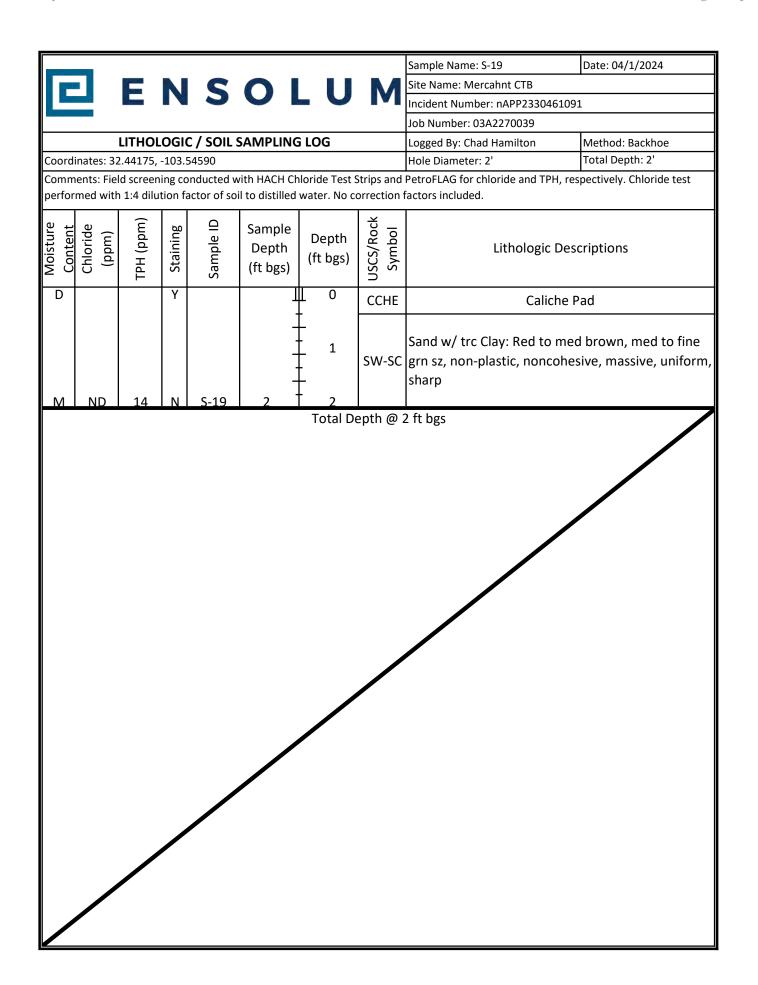


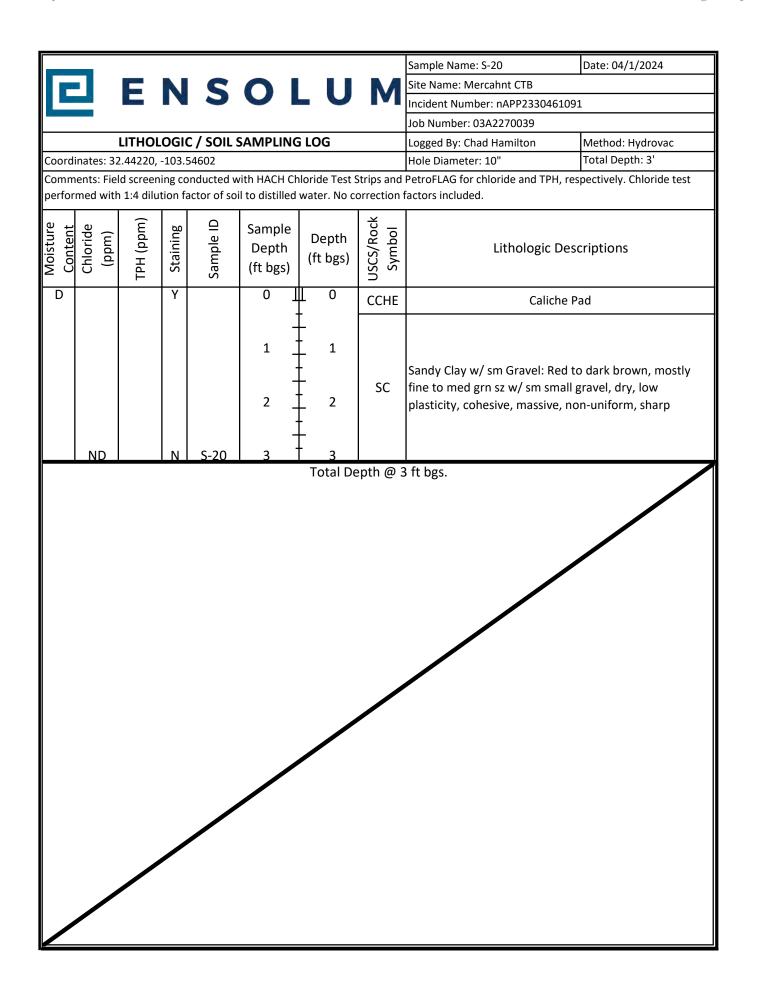


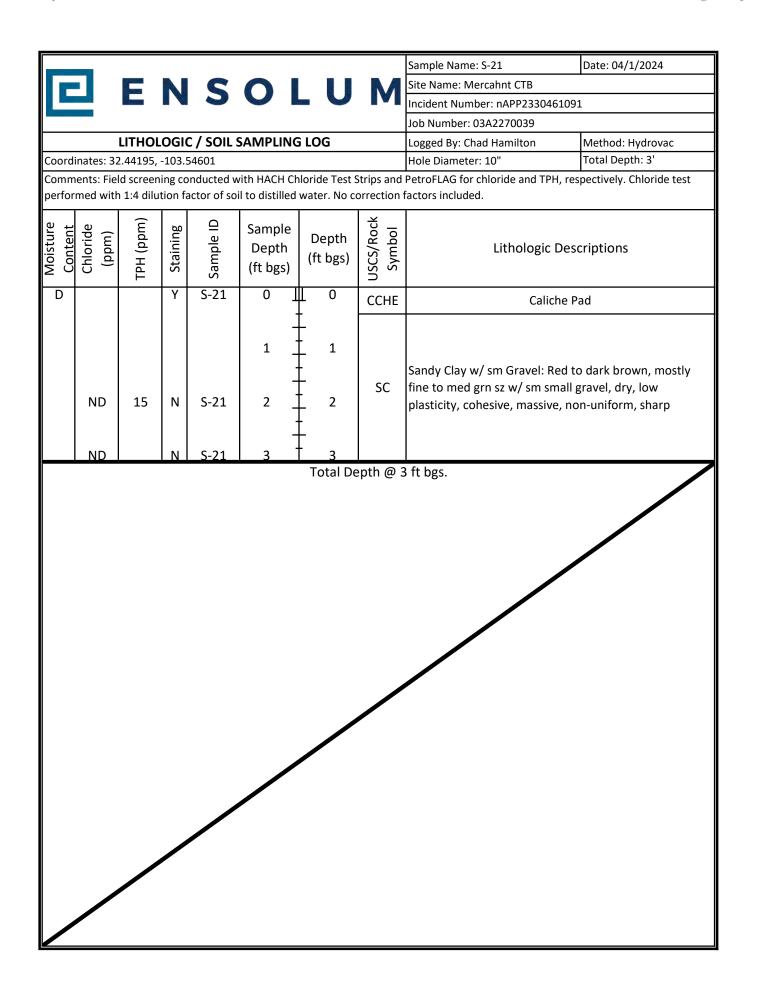














APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Merchant CTB

Work Order: E404011

Job Number: 23003-C-0001

Received: 4/2/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 4/9/24

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: 4/9/24

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

Project Name: Merchant CTB

Workorder: E404011

Date Received: 4/2/2024 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/2/2024 9:00:00AM, under the Project Name: Merchant CTB.

The analytical test results summarized in this report with the Project Name: Merchant CTB 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC.	Project Name:	Merchant CTB	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/09/24 14:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-3 -6'	E404011-01A	Soil	03/29/24	04/02/24	Glass Jar, 2 oz.
S-3 -8'	E404011-02A	Soil	03/29/24	04/02/24	Glass Jar, 2 oz.
S-4 -6'	E404011-03A	Soil	03/29/24	04/02/24	Glass Jar, 2 oz.
S-4 -8'	E404011-04A	Soil	03/29/24	04/02/24	Glass Jar, 2 oz.
S-4 -10'	E404011-05A	Soil	03/29/24	04/02/24	Glass Jar, 2 oz.
S-4 -11'	E404011-06A	Soil	03/29/24	04/02/24	Glass Jar, 2 oz.
S-5 -6'	E404011-07A	Soil	03/29/24	04/02/24	Glass Jar, 2 oz.
S-5 -8'	E404011-08A	Soil	03/29/24	04/02/24	Glass Jar, 2 oz.
S-5 -9'	E404011-09A	Soil	03/29/24	04/02/24	Glass Jar, 2 oz.
S-15 -5'	E404011-10A	Soil	03/29/24	04/02/24	Glass Jar, 2 oz.
S-15 -6'	E404011-11A	Soil	03/29/24	04/02/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 2:36:01PM

S-3 -6' E404011-01

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2414029
Benzene	ND	0.0250	1	1	04/02/24	04/05/24	
Ethylbenzene	ND	0.0250	1	1	04/02/24	04/05/24	
Toluene	ND	0.0250	1	1	04/02/24	04/05/24	
o-Xylene	ND	0.0250	1	1	04/02/24	04/05/24	
p,m-Xylene	ND	0.0500	1	1	04/02/24	04/05/24	
Total Xylenes	ND	0.0250	1	1	04/02/24	04/05/24	
Surrogate: Bromofluorobenzene		109 %	70-130		04/02/24	04/05/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/02/24	04/05/24	
Surrogate: Toluene-d8		101 %	70-130		04/02/24	04/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2414029
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	04/02/24	04/05/24	
Surrogate: Bromofluorobenzene		109 %	70-130		04/02/24	04/05/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/02/24	04/05/24	
Surrogate: Toluene-d8		101 %	70-130		04/02/24	04/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2414055
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/04/24	04/05/24	
Surrogate: n-Nonane		116 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2414031
	247				04/02/24	04/02/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 2:36:01PM

S-3 -8'

		E404011-02					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414029
Benzene	ND	0.0250		1	04/02/24	04/05/24	
Ethylbenzene	ND	0.0250		1	04/02/24	04/05/24	
Toluene	ND	0.0250		1	04/02/24	04/05/24	
o-Xylene	ND	0.0250		1	04/02/24	04/05/24	
p,m-Xylene	ND	0.0500		1	04/02/24	04/05/24	
Total Xylenes	ND	0.0250		1	04/02/24	04/05/24	
Surrogate: Bromofluorobenzene		104 %	70-130		04/02/24	04/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130		04/02/24	04/05/24	
Surrogate: Toluene-d8		104 %	70-130		04/02/24	04/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414029
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/02/24	04/05/24	
Surrogate: Bromofluorobenzene		104 %	70-130		04/02/24	04/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130		04/02/24	04/05/24	
Surrogate: Toluene-d8		104 %	70-130		04/02/24	04/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2414055
Diesel Range Organics (C10-C28)	ND	25.0		1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0		1	04/04/24	04/05/24	
Surrogate: n-Nonane		120 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2414031
Chloride	285	20.0		1	04/02/24	04/02/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 2:36:01PM

S-4 -6'

E404011-03							
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414029
Benzene	ND	0.0250		1	04/02/24	04/06/24	
Ethylbenzene	ND	0.0250		1	04/02/24	04/06/24	
Toluene	ND	0.0250		1	04/02/24	04/06/24	
o-Xylene	ND	0.0250		1	04/02/24	04/06/24	
p,m-Xylene	ND	0.0500		1	04/02/24	04/06/24	
Total Xylenes	ND	0.0250		1	04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130		04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		04/02/24	04/06/24	
Surrogate: Toluene-d8		102 %	70-130		04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414029
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130		04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		04/02/24	04/06/24	
Surrogate: Toluene-d8		102 %	70-130		04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2414055
Diesel Range Organics (C10-C28)	ND	25.0		1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0		1	04/04/24	04/05/24	
Surrogate: n-Nonane		117 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2414031
Chloride	1150	20.0		1	04/02/24	04/02/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 2:36:01PM

S-4 -8'

E404011-04

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414029
Benzene	ND	0.0250		1	04/02/24	04/06/24	
Ethylbenzene	ND	0.0250		1	04/02/24	04/06/24	
Toluene	ND	0.0250		1	04/02/24	04/06/24	
o-Xylene	ND	0.0250		1	04/02/24	04/06/24	
p,m-Xylene	ND	0.0500		1	04/02/24	04/06/24	
Total Xylenes	ND	0.0250		1	04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		107 %	70-130		04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		04/02/24	04/06/24	
Surrogate: Toluene-d8		103 %	70-130		04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg		Analyst: RKS			Batch: 2414029
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		107 %	70-130		04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		04/02/24	04/06/24	
Surrogate: Toluene-d8		103 %	70-130		04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2414055
Diesel Range Organics (C10-C28)	ND	25.0		1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0		1	04/04/24	04/05/24	
Surrogate: n-Nonane		113 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2414031

Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 2:36:01PM

S-4 -10'

E404011-05							
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RK	S		Batch: 2414029
Benzene	ND	0.0250	1	l	04/02/24	04/06/24	
Ethylbenzene	ND	0.0250	1	l	04/02/24	04/06/24	
Toluene	ND	0.0250	1	l	04/02/24	04/06/24	
o-Xylene	ND	0.0250	1	l	04/02/24	04/06/24	
p,m-Xylene	ND	0.0500	1	l	04/02/24	04/06/24	
Total Xylenes	ND	0.0250	1	l	04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		109 %	70-130		04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		04/02/24	04/06/24	
Surrogate: Toluene-d8		105 %	70-130		04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RK	XS.		Batch: 2414029
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		109 %	70-130		04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		04/02/24	04/06/24	
Surrogate: Toluene-d8		105 %	70-130		04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV	7		Batch: 2414055
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/04/24	04/05/24	
Surrogate: n-Nonane		114 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT			Batch: 2414031
Chloride	1560	20.0	1	l	04/02/24	04/02/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 2:36:01PM

S-4 -11' E404011-06

		E404011-00					
	D 1	Reporting	~		n .		
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2414029
Benzene	ND	0.0250		1	04/02/24	04/06/24	
Ethylbenzene	ND	0.0250		1	04/02/24	04/06/24	
Toluene	ND	0.0250		1	04/02/24	04/06/24	
o-Xylene	ND	0.0250		1	04/02/24	04/06/24	
p,m-Xylene	ND	0.0500		1	04/02/24	04/06/24	
Total Xylenes	ND	0.0250		1	04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		104 %	70-130		04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		04/02/24	04/06/24	
Surrogate: Toluene-d8		104 %	70-130		04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2414029
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		104 %	70-130		04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		04/02/24	04/06/24	
Surrogate: Toluene-d8		104 %	70-130		04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2414055
Diesel Range Organics (C10-C28)	ND	25.0		1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0		1	04/04/24	04/05/24	
Surrogate: n-Nonane		120 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2414031
Chloride	361	20.0		1	04/02/24	04/02/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 2:36:01PM

S-5 -6' E404011-07

		E-10-1011-07				
Analyte	Result	Reporting Limit	Dilut	tion Prepare	ed Analyzed	Notes
· ·				Analyst: RKS	ed 7mary200	Batch: 2414029
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg			24 04/06/24	Batch: 2414029
Benzene	ND	0.0250	1	04/02/2		
Ethylbenzene	ND	0.0250	1	04/02/2		
Toluene	ND	0.0250	1	04/02/2		
o-Xylene	ND	0.0250	1	04/02/2		
p,m-Xylene	ND	0.0500	1	04/02/2	24 04/06/24	
Total Xylenes	ND	0.0250	1	04/02/2	24 04/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130	04/02/2	24 04/06/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	04/02/2	24 04/06/24	
Surrogate: Toluene-d8		104 %	70-130	04/02/2	24 04/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2414029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/2	24 04/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130	04/02/2	24 04/06/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	04/02/2	24 04/06/24	
Surrogate: Toluene-d8		104 %	70-130	04/02/2	24 04/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2414055
Diesel Range Organics (C10-C28)	27.2	25.0	1	04/04/2	24 04/05/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/2	24 04/05/24	
Surrogate: n-Nonane		120 %	50-200	04/04/2	24 04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2414031
Chloride	260	20.0	1	04/02/2	24 04/02/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 2:36:01PM

S-5 -8'

E404011-08

		E-10-1011-00					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	•		Batch: 2414029
Benzene	ND	0.0250	1	 I	04/02/24	04/05/24	Button 2111025
Ethylbenzene	ND	0.0250	1	1	04/02/24	04/05/24	
Toluene	ND	0.0250	1	1	04/02/24	04/05/24	
o-Xylene	ND	0.0250	1	1	04/02/24	04/05/24	
p,m-Xylene	ND	0.0500	1	1	04/02/24	04/05/24	
Total Xylenes	ND	0.0250	1	1	04/02/24	04/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130		04/02/24	04/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		04/02/24	04/05/24	
Surrogate: Toluene-d8		98.8 %	70-130		04/02/24	04/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414029
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	04/02/24	04/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130		04/02/24	04/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		04/02/24	04/05/24	
Surrogate: Toluene-d8		98.8 %	70-130		04/02/24	04/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2414055
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/04/24	04/05/24	
Surrogate: n-Nonane		121 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2414031
Milons by E171 500:0/7030/1							



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 2:36:01PM

S-5 -9'

E404011-09

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
•							
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: 1			Batch: 2414029
Benzene	ND	0.0250	1	l	04/02/24	04/06/24	
Ethylbenzene	ND	0.0250	1	1	04/02/24	04/06/24	
Toluene	ND	0.0250	1	l	04/02/24	04/06/24	
p-Xylene	ND	0.0250	1	1	04/02/24	04/06/24	
o,m-Xylene	ND	0.0500	1	1	04/02/24	04/06/24	
Total Xylenes	ND	0.0250	1	1	04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		102 %	70-130		04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		04/02/24	04/06/24	
Surrogate: Toluene-d8		102 %	70-130		04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: 1	RKS		Batch: 2414029
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		102 %	70-130		04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		04/02/24	04/06/24	
Surrogate: Toluene-d8		102 %	70-130		04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: 1	NV		Batch: 2414055
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/04/24	04/05/24	
Surrogate: n-Nonane		117 %	50-200		04/04/24	04/05/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 2:36:01PM

S-15 -5' E404011-10

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2414029
Benzene	ND	0.0250	1	04/02/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/06/24	
Toluene	ND	0.0250	1	04/02/24	04/06/24	
o-Xylene	ND	0.0250	1	04/02/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		103 %	70-130	04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/02/24	04/06/24	
Surrogate: Toluene-d8		103 %	70-130	04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2414029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		103 %	70-130	04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/02/24	04/06/24	
Surrogate: Toluene-d8		103 %	70-130	04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2414055
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		117 %	50-200	04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2414031
Chloride	38.0	20.0	1	04/02/24	04/02/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 2:36:01PM

S-15 -6'

E404011-11

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414029
Benzene	ND	0.0250	1		04/02/24	04/06/24	
Ethylbenzene	ND	0.0250	1		04/02/24	04/06/24	
Toluene	ND	0.0250	1		04/02/24	04/06/24	
o-Xylene	ND	0.0250	1		04/02/24	04/06/24	
p,m-Xylene	ND	0.0500	1		04/02/24	04/06/24	
Total Xylenes	ND	0.0250	1		04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130		04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		04/02/24	04/06/24	
Surrogate: Toluene-d8		104 %	70-130		04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414029
Gasoline Range Organics (C6-C10)	ND	20.0	1		04/02/24	04/06/24	
Surrogate: Bromofluorobenzene		105 %	70-130		04/02/24	04/06/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		04/02/24	04/06/24	
Surrogate: Toluene-d8		104 %	70-130		04/02/24	04/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2414055
Diesel Range Organics (C10-C28)	ND	25.0	1		04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1		04/04/24	04/05/24	



QC Summary Data

Matador Resources, LLC.
Project Name: Merchant CTB

S400 LBJ Freeway, Suite 1500
Project Number: 23003-C-0001

Dallas TX, 75240
Project Manager: Ashley Giovengo

Ashley Giovengo

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			4/9	//2024 2:36:01PM
	V	olatile Organ	ic Compo	unds by El	PA 82601	В		A	analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2414029-BLK1)							Prepared: 04	1/02/24 Analy	zed: 04/05/24
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	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
LCS (2414029-BS1)							Prepared: 04	1/02/24 Analy	zed: 04/05/24
Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.47	0.0250	2.50		98.8	70-130			
Toluene	2.38	0.0250	2.50		95.3	70-130			
p-Xylene	2.29	0.0250	2.50		91.5	70-130			
p,m-Xylene	4.55	0.0500	5.00		91.0	70-130			
Total Xylenes	6.84	0.0250	7.50		91.2	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			
Matrix Spike (2414029-MS1)				Source:	E404011-	08	Prepared: 04	1/02/24 Analy	zed: 04/05/24
Benzene	2.46	0.0250	2.50	ND	98.6	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.2	45-135			
Toluene	2.30	0.0250	2.50	ND	92.1	48-130			
o-Xylene	2.25	0.0250	2.50	ND	90.2	43-135			
p,m-Xylene	4.49	0.0500	5.00	ND	89.8	43-135			
Total Xylenes	6.74	0.0250	7.50	ND	89.9	43-135			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			
Matrix Spike Dup (2414029-MSD1)				Source:	E404011-	08	Prepared: 04	1/02/24 Analy	zed: 04/05/24
Benzene	2.46	0.0250	2.50	ND	98.2	48-131	0.346	23	
Ethylbenzene	2.37	0.0250	2.50	ND	94.9	45-135	0.400	27	
Toluene	2.31	0.0250	2.50	ND	92.2	48-130	0.174	24	
o-Xylene	2.33	0.0250	2.50	ND	93.1	43-135	3.21	27	
p,m-Xylene	4.62	0.0500	5.00	ND	92.3	43-135	2.75	27	
Total Xylenes	6.94	0.0250	7.50	ND	92.6	43-135	2.90	27	
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
			0.500		100	50.120			



0.500

100

70-130

0.501

Surrogate: Toluene-d8

QC Summary Data

Matador Resources, LLC.Project Name:Merchant CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-C-0001Dallas TX, 75240Project Manager:Ashley Giovengo4/9/20242:36:01PM

Nonhalogenated	Organics b	v EPA	8015D -	GRO

Analyst: RKS

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

	Result	2	Ec ver	1000011	iccc	2111110	10.2	2	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2414029-BLK1)							Prepared: 0-	4/02/24 A	nalyzed: 04/05/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
LCS (2414029-BS2)							Prepared: 0	4/02/24 A	nalyzed: 04/05/24
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			
Matrix Spike (2414029-MS2)				Source:	E404011-0	08	Prepared: 0	4/02/24 A	nalyzed: 04/05/24
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130			
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			
Matrix Spike Dup (2414029-MSD2)				Source:	E404011-0	08	Prepared: 0	4/02/24 A	nalyzed: 04/05/24
Gasoline Range Organics (C6-C10)	52.1	20.0	50.0	ND	104	70-130	3.96	20	
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Merchant CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 2:36:01PM

Dallas 1A, /3240		Project Manage	r: As	mey Gloveng	30			7	79/2024 2.30.01FW
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2414055-BLK1)							Prepared: 0	4/04/24 Ana	llyzed: 04/05/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.3		50.0		119	50-200			
LCS (2414055-BS1)							Prepared: 0	4/04/24 Ana	lyzed: 04/05/24
Diesel Range Organics (C10-C28)	315	25.0	250		126	38-132			
Surrogate: n-Nonane	61.7		50.0		123	50-200			
Matrix Spike (2414055-MS1)				Source:	E404011-0)3	Prepared: 0	4/04/24 Ana	lyzed: 04/05/24
Diesel Range Organics (C10-C28)	313	25.0	250	ND	125	38-132			
Surrogate: n-Nonane	60.6		50.0		121	50-200			
Matrix Spike Dup (2414055-MSD1)				Source:	E404011-0)3	Prepared: 0	4/04/24 Ana	llyzed: 04/05/24
Diesel Range Organics (C10-C28)	316	25.0	250	ND	126	38-132	1.10	20	
Surrogate: n-Nonane	57.8		50.0		116	50-200			



Matrix Spike Dup (2414031-MSD1)

Chloride

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	: 23	erchant CTB 3003-C-0001 shley Gioveng	50				Reported: 4/9/2024 2:36:01PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	1				Analyst: DT
Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2414031-BLK1)							Prepared: 0	4/02/24 A	nalyzed: 04/02/24
Chloride	ND	20.0							
LCS (2414031-BS1)							Prepared: 0	4/02/24 A	nalyzed: 04/02/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2414031-MS1)				Source:	E404003-	01	Prepared: 0	4/02/24 A	nalyzed: 04/02/24
Chloride	251	20.0	250	ND	100	80-120			

250

20.0

Source: E404003-01

101

80-120

0.599

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.



Prepared: 04/02/24 Analyzed: 04/02/24

20

Definitions and Notes

I	Matador Resources, LLC.	Project Name:	Merchant CTB	
I	5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/09/24 14:36

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 Pro	duction (Company		Bill To				la	b U	se Or	ılv		1	-	TA	AT		FPA P	rogram
	Merchant				Attention: Ensolum LLC		Lah	WO#			Job		her	10	2D			dard	CWA	SDWA
	Manager: As		vengo		Address: on file		F	400	101	1			3.600		1	-		X	0,	551111
	: 3122 Natio				City, State, Zip:		-	10.	101				nd Meth							RCRA
	te, Zip: Carls				Phone: 575-988-0055		1	20			-									7,5,0,0
	575-988-005				Email: agiovengo@ensolum.con	1		NO NO											State	
Email: a	giovengo@e	nsolum.	com				1	0/0	<u>.</u>		0						N	м со	UT AZ	TX
Report o	lue by:							O/DR	802	8260	9010	300.0	Ŧ	N N		X	_	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number		TPH GRO/DRO/ORO by 8015	ВТЕХ БУ 8021	VOC by 8260	Metals 6010	Chloride	тсед трн	BGDOC		GDOC			Remarks	
12:22	3/29/2024	S	1		S-3 - 6'	1								х						
12:26	3/29/2024	S	1		S-3 - 8'	2								х						
11:36	3/29/2024	S	1		S-4 - 6'	3								х			H			
11:50	3/29/2024	S	1		S-4 - 8'	4								х						
12:08	3/29/2024	S	1		S-4 - 10'	5								х			a			
13:15	3/29/2024	S	1		S-4 - 11'	6								Х						
9:48	3/29/2024	S	1		S-5 - 6'	7								х						
9:53	3/29/2024	S	1		S-5 - 8'	8								х						
11:08	3/29/2024	S	1		S-5 - 9'	9						П		Х			Te	st only if S-5	- 8' does not pa 600 Chlorides	ss 100 TPH and
14:07	3/29/2024	S	1		S-15 - 5'	10								х						
Addition	al Instructio	ns: Plea	ase CC: cb	urton@enso	lum.com, agiovengo@ensolum.com, c	hamilton@e	nsol	um.co	om, i	estr	ella@	ens	olum.co	om						
				y of this sample. I y be grounds for le	am aware that tampering with or intentionally misla gal action. <u>Sampled by:</u> Chad Ha		le loca	tion,											hey are samp quent days.	ed or
Relinquish	ed by: (Signatur	<u>re)</u>	Date O4/	01/24 Time	Received by: (Signature)	Date 4-1-2	4	Time	30	5	Rece	ived	on ice:		ab U	se On	ly			
Relingish	Mr.	(e)	Date/	124 17	Received by: (Signature)	Date . / - /	24	Time	115		T1			T2			<u>T3</u>			
/	ed by: (Signatu	ie)	Date 4.	1-14 Z	Received by: (Signature)	Date 4/2/	W	Time	OD		AVG	Tem	p °C	4						
1	rix: S - Soil, Sd - S					Containe	т Туре	e: g - g	lass,	_				ber g	lass, v	- VOA	4			
Note: Sam	ples are discard	ed 30 days	after resul	ts are reported u	inless other arrangements are made. Hazardo													for the a	nalysis of t	he above
					inless other arrangements are made. Hazardo ratory with this COC. The liability of the laborat	us samples will	be ret	turned	to cli	ent o	r dispo	osed o	of at the o					for the a	nalysis of t	he above



e client expense. The report for the analysis of the above

Rege 59

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Received by OCD: 5/13/2024 8:19:48 AM

Client: N	Matador Pro	duction C	ompany			Bill To				La	b Us	se Or	nly					TA	T		EPA Pi	ogram
Project:	Merchan	t CTB			A	ttention: Ensolum LLC		Lab	WO#			Job		ber		1D	2D	3D	Star	ndard	CWA	SDWA
Project N	Manager: As	hley Giov	/engo		A	ddress: on file		E	404	1011		230	103-	C-00	01					X		
Address:	3122 Natio	nal Parks	Hwy		<u> </u>	ity, State, Zip:						Analy	sis a	nd Me	ethod	1						RCRA
City, Stat	te, Zip: Carls	bad NM,	88220		P	hone: 575-988-0055			by													
Phone:	575-988-005	5			E	mail: agiovengo@ensolum.co	m		ORO												State	
Email: a	giovengo@e	nsolum.c	om						0/0	-			0			NN			N	M CO	UT AZ	TX
Report d	lue by:								GRO/DRO/ORO by	802	3260	010	300.0	п	1			×		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number		TPH GRC 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride	тсеа трн		BGDOC		СБОС		^1	Remarks	
14:10	3/29/2024	S	1			S-15 - 6'	1(х				Only test if 5-1	5 - 5' does not pa 600 Chlorides	ss 100 TPH and
I, (field sam	pler), attest to th	e validity and	d authenticit		am aware	m, agiovengo@ensolum.com, e that tampering with or intentionally mis				om, i	estr	Sample	s requi	ring the	rmal pr	eserva				A Section Control	they are samplequent days.	ed or
Relinquishe	ed by: (Signatur	re)	Date O4	1.24 Time	1.21	Received by: (Signature) Received by: (Signature) Received by: (Signature)	Date 4-1-2	24 4	Time.	3 6 715)	<u>T1</u>		on id	_	T2	ib U:	se On	<u>T.</u>	3		
Can	frew U	10000	14.	1-14 1	600	104	11 10 20 20 30	01	_		-			-	_							
	rix: S - Soil, Sd - S						Container															
						ner arrangements are made. Hazard ith this COC. The liability of the labor									ne clie	ent ex	pens	e. The	report	for the a	nalysis of t	ne above
mulhica 12	applicable utily	נים בנוחסב פכ	unhies rece	ived by the labo	acory W	ich chis coc. The hability of the labor	atory is illilled to	o the	dinoul	ir haid	101 (ui rue	rebo									



envirotech

Printed: 4/2/2024 2:13:14PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

·				
Client: Matador Resources, LLC.	Date Received:	04/02/24 09:0	0	Work Order ID: E404011
Phone: (972) 371-5200	Date Logged In:	04/02/24 10:1	2	Logged In By: Angelina Pineda
Email: agiovngo@ensolum.com	Due Date:	04/08/24 17:0	0 (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 m	atch the COC	Yes		
3. Were samples dropped off by client or carrier?		Yes	Carrier: C	<u>Courier</u>
4. Was the COC complete, i.e., signatures, dates/times, requ	ested analyses?	Yes		
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disusse		Yes		Comments/Resolution
Sample Turn Around Time (TAT)				
6. Did the COC indicate standard TAT, or Expedited TAT?		Yes		Remarks on samples 9 & 11 on COC
Sample Cooler				states: Test only if Sample 8 & 10 does not
7. Was a sample cooler received?		Yes		pass 100 TPH and 600 chlorides. By client.
8. If yes, was cooler received in good condition?		Yes		pubblication in the second substitution by showing
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 Note: Thermal preservation is not required, if samples a minutes of sampling 13. If no visible ice, record the temperature. Actual sample	re received w/i 15	Yes		
	e temperature. 4	<u>c</u>		
Sample Container 14. Are equely VOC complete present?		No		
14. Are aqueous VOC samples present?15. Are VOC samples collected in VOA Vials?		No NA		
16. Is the head space less than 6-8 mm (pea sized or less)?		NA NA		
		NA NA		
17. Was a trip blank (TB) included for VOC analyses?	-9			
 Are non-VOC samples collected in the correct container Is the appropriate volume/weight or number of sample container 		Yes Yes		
Field Label	mers conected?	103		
20. Were field sample labels filled out with the minimum in:	Cormation:			
Sample ID?	ormation.	Yes		
Date/Time Collected?		Yes		
Collectors name?		Yes		
Sample Preservation				
21. Does the COC or field labels indicate the samples were j	oreserved?	No		
22. Are sample(s) correctly preserved?		NA		
24. Is lab filteration required and/or requested for dissolved	metals?	No		
Multiphase Sample Matrix				
26. Does the sample have more than one phase, i.e., multiph	ase?	No		
27. If yes, does the COC specify which phase(s) is to be ana	lyzed?	NA		
Subcontract Laboratory				
28. Are samples required to get sent to a subcontract laborat	orv?	No		
29. Was a subcontract laboratory specified by the client and	•		bcontract Lab	o: NA
Client Instruction				
Cheff Histi uction				

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Merchant CTB

Work Order: E404012

Job Number: 23003-C-0001

Received: 4/3/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 4/15/24

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: 4/15/24

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

Project Name: Merchant CTB

Workorder: E404012

Date Received: 4/3/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/3/2024 8:00:00AM, under the Project Name: Merchant CTB.

The analytical test results summarized in this report with the Project Name: Merchant CTB 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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Sample Summary

Matador Resources, LLC.	Project Name:	Merchant CTB	Donoutodi
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/15/24 15:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 -0'	E404012-01A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
SS02 -0'	E404012-02A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
SS03 -0'	E404012-03A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
SS04 -0'	E404012-04A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
SS05 -0'	E404012-05A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S -1-4'	E404012-06A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S-12 -5'	E404012-07A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S-18 -2'	E404012-08A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S-19 -2'	E404012-09A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S-20 -3'	E404012-10A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S-21 -2'	E404012-11A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.



Case Narative:

Project Name: Merchant CTB

Workorder: E404012

Date Received: 04-03-2024

The client requested the following sample(s) to be re-extracted and re-analyzed:

Sample Name

<u>Laboratory ID</u>

Analysis

SS03-0'

E404012-03

Nonhalogenated Organics by EPA 8015- DRO/ORO

The analytical test results summarized in this revised report represent this re-extration and re-analysis.

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

Respectfully,

Walter Hinchman

Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/15/2024 3:45:47PM

SS01 -0' E404012-01

		E404012-01				
Analyte	Result	Reporting Limit	Dilu	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: RKS	<u> </u>	Batch: 2414040
Benzene	ND	0.0250	1	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/08/24	
Toluene	ND	0.0250	1	04/03/24	04/08/24	
o-Xylene	ND	0.0250	1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130	04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: RKS		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130	04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KM		Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		116 %	50-200	04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM		Batch: 2414046
Chloride	ND	20.0	1	04/03/24	04/03/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/15/2024 3:45:47PM

SS02 -0' E404012-02

		2:0:012 02					
Analyte	Result	Reporting Limit	Dil	ution	Prepared	Analyzed	Notes
	mg/kg	mg/kg		Analyst		1 mary 200	Batch: 2414040
Volatile Organic Compounds by EPA 8260B Benzene	ND	0.0250		1	04/03/24	04/08/24	Batch: 2414040
Ethylbenzene	ND	0.0250		1	04/03/24	04/08/24	
Toluene	ND	0.0250		1	04/03/24	04/08/24	
o-Xylene	ND	0.0250		1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500		1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		109 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		109 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2414056
Diesel Range Organics (C10-C28)	25.3	25.0		1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0		1	04/04/24	04/05/24	
Surrogate: n-Nonane		121 %	50-200	·	04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2414046
Chloride	129	20.0		1	04/03/24	04/03/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/15/2024 3:45:47PM

SS03 -0' E404012-03

		2101012 00					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2414040
Benzene	ND	0.0250		1	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250		1	04/03/24	04/08/24	
Toluene	ND	0.0250		1	04/03/24	04/08/24	
o-Xylene	ND	0.0250		1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500		1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		105 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		106 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		105 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		106 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2415076
Diesel Range Organics (C10-C28)	45.9	25.0	_	1	04/04/24	04/13/24	
Oil Range Organics (C28-C36)	ND	50.0		1	04/04/24	04/13/24	
Surrogate: n-Nonane		88.8 %	50-200		04/04/24	04/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2414046
Chloride	69.4	20.0		1	04/03/24	04/04/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/15/2024 3:45:47PM

SS04 -0' E404012-04

		E404012-04					
Analysta	Result	Reporting Limit		ıtion	Duomonod	Amakuzad	Notes
Analyte	Kesuit	Limit	Dilu	mon	Prepared	Analyzed	inotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2414040
Benzene	ND	0.0250	1	1	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250	1	1	04/03/24	04/08/24	
Toluene	ND	0.0250	1	1	04/03/24	04/08/24	
o-Xylene	ND	0.0250	1	1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500	1	1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250	1	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		103 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2414040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		103 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/04/24	04/05/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/04/24	04/05/24	
Surrogate: n-Nonane		116 %	50-200	·	04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: JM		Batch: 2414046
Chloride	130	20.0	1	1	04/03/24	04/04/24	
Anonac	150	20.0	•	-	000.2.	002.	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/15/2024 3:45:47PM

SS05 -0' E404012-05

		E404012-03					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414040
Benzene	ND	0.0250		1	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250		1	04/03/24	04/08/24	
Toluene	ND	0.0250		1	04/03/24	04/08/24	
o-Xylene	ND	0.0250		1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500		1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		104 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		103 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		104 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		103 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM			Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0		1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0		1	04/04/24	04/05/24	
Surrogate: n-Nonane		114 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2414046
Chloride	197	20.0		1	04/03/24	04/04/24	

Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/15/2024 3:45:47PM

S -1-4'

E404012-06

		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2414040
Benzene	ND	0.0250	1	l	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250	1	l	04/03/24	04/08/24	
Toluene	ND	0.0250	1	l	04/03/24	04/08/24	
o-Xylene	ND	0.0250	1	l	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500	1]	04/03/24	04/08/24	
Total Xylenes	ND	0.0250	1	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		108 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		105 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: RKS		RKS		Batch: 2414040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		108 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		105 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg		Analyst: KM			Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	04/04/24	04/05/24	
Surrogate: n-Nonane	·	109 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2414046
-	22.6	20.0	1		04/03/24	04/04/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/15/2024 3:45:47PM

S-12 -5'

		E404012-07					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: 1	RKS		Batch: 2414040
Benzene	ND	0.0250	1	1	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250	1	l	04/03/24	04/08/24	
Toluene	ND	0.0250	1	l	04/03/24	04/08/24	
o-Xylene	ND	0.0250	1	l	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500	1	l	04/03/24	04/08/24	
Total Xylenes	ND	0.0250	1	l	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		101 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		101 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: 1	KM		Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	l	04/04/24	04/05/24	
Surrogate: n-Nonane		113 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: .	JM		Batch: 2414046
Chloride	147	20.0	1	1	04/03/24	04/04/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/15/2024 3:45:47PM

S-18 -2'

E404012-08

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: RKS		Batch: 2414040
Benzene	ND	0.0250	1	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/08/24	
Toluene	ND	0.0250	1	04/03/24	04/08/24	
o-Xylene	ND	0.0250	1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/03/24	04/08/24	
Surrogate: Toluene-d8		105 %	70-130	04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: RKS		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130	04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/03/24	04/08/24	
Surrogate: Toluene-d8		105 %	70-130	04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: KM		Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		112 %	50-200	04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: JM		Batch: 2414046



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/15/2024 3:45:47PM

S-19 -2' E404012-09

		E-10-1012-07				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilution	n Prepared	Anaiyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2414040
Benzene	ND	0.0250	1	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/08/24	
Toluene	ND	0.0250	1	04/03/24	04/08/24	
o-Xylene	ND	0.0250	1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		102 %	70-130	04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130	04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg Analyst: RKS			Batch: 2414040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		102 %	70-130	04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130	04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/06/24	
Surrogate: n-Nonane		113 %	50-200	04/04/24	04/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: JM		Batch: 2414046
Chloride	121	20.0	1	04/03/24	04/04/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/15/2024 3:45:47PM

S-20 -3' E404012-10

Dagult	Reporting		ution	Duomonod	Amalyzad	Notes
Kesuit	Limit	Dill	ution	Prepared	Anaiyzed	notes
mg/kg	mg/kg		Analyst:	: RKS		Batch: 2414040
ND	0.0250		1	04/03/24	04/08/24	
ND	0.0250		1	04/03/24	04/08/24	
ND	0.0250		1	04/03/24	04/08/24	
ND	0.0250		1	04/03/24	04/08/24	
ND	0.0500		1	04/03/24	04/08/24	
ND	0.0250		1	04/03/24	04/08/24	
	111 %	70-130		04/03/24	04/08/24	
	106 %	70-130		04/03/24	04/08/24	
	102 %	70-130		04/03/24	04/08/24	
mg/kg	mg/kg Analyst: RKS			Batch: 2414040		
ND	20.0		1	04/03/24	04/08/24	
	111 %	70-130		04/03/24	04/08/24	
	106 %	70-130		04/03/24	04/08/24	
	102 %	70-130		04/03/24	04/08/24	
mg/kg	mg/kg		Analyst:	: KM		Batch: 2414056
ND	25.0	-	1	04/04/24	04/06/24	
ND	50.0		1	04/04/24	04/06/24	
	108 %	50-200		04/04/24	04/06/24	
mg/kg	mg/kg		Analyst	: JM		Batch: 2414046
25.2	20.0		1	04/03/24	04/04/24	
	ND Mg/kg ND Mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 III % 106 % 102 % mg/kg MD 20.0 III % 106 % 102 % mg/kg Mg/kg mg/kg ND 25.0 ND 50.0 108 % mg/kg mg/kg mg/kg	Result Limit Dil mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 III % 70-130 106 % 70-130 102 % 70-130 mg/kg mg/kg ND 20.0 III % 70-130 106 % 70-130 102 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 111 % 70-130 106 % 70-130 102 % 70-130 mg/kg mg/kg Analyst ND 20.0 1 111 % 70-130 1 102 % 70-130 1 mg/kg mg/kg Analyst ND 25.0 1 ND 50.0 1 108 % 50-200 mg/kg Mg/kg Analyst	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 04/03/24 ND 0.0250 1 04/03/24 ND 0.0250 1 04/03/24 ND 0.0250 1 04/03/24 ND 0.0500 1 04/03/24 ND 0.0250 1 04/03/24 111 % 70-130 04/03/24 106 % 70-130 04/03/24 102 % 70-130 04/03/24 111 % 70-130 04/03/24 111 % 70-130 04/03/24 106 % 70-130 04/03/24 102 % 70-130 04/03/24 102 % 70-130 04/03/24 102 % 70-130 04/03/24 102 % 70-130 04/03/24 102 % 70-130 04/03/24 102 % 70-130 04/03/24 ND 25.0 1 <	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 04/03/24 04/08/24 ND 0.0500 1 04/03/24 04/08/24 ND 0.0250 1 04/03/24 04/08/24 ND 0.0250 1 04/03/24 04/08/24 111 % 70-130 04/03/24 04/08/24 106 % 70-130 04/03/24 04/08/24 Mg/kg mg/kg Analyst: RKS ND 20.0 1 04/03/24 04/08/24 111 % 70-130 04/03/24 04/08/24 106 % 70-130 04/03/24 04/08/24 102 % 70-130 04/03/24 04/08/24 102 % 70-130



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/15/2024 3:45:47PM

S-21 -2'

		E404012-11					
		Reporting					
Analyte	Result	Limit	Dilu	tion Pre	pared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2414040
Benzene	ND	0.0250	1	04/	03/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/	03/24	04/08/24	
Toluene	ND	0.0250	1	04/	03/24	04/08/24	
o-Xylene	ND	0.0250	1	04/	03/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/	03/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/	03/24	04/08/24	
Surrogate: Bromofluorobenzene		104 %	70-130	04/	03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/	03/24	04/08/24	
Surrogate: Toluene-d8		103 %	70-130	04/	03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/	03/24	04/08/24	
Surrogate: Bromofluorobenzene		104 %	70-130	04/	03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/	03/24	04/08/24	
Surrogate: Toluene-d8		103 %	70-130	04/	03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM			Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0	1	04/	04/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/	04/24	04/06/24	
Surrogate: n-Nonane		111 %	50-200	04/	04/24	04/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM			Batch: 2414046
Chloride	ND	20.0	1	04/	03/24	04/04/24	



QC Summary Data

Matador Resources, LLC. Project Name: Merchant CTB Reported:
5400 LBJ Freeway, Suite 1500 Project Number: 23003-C-0001
Dallas TX, 75240 Project Manager: Ashley Giovengo 4/15/2024 3:45:47PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			4/	15/2024 3:45:47PN
	V	olatile Organ	ic Compo	unds by El	PA 82601	В			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2414040-BLK1)							Prepared:	04/03/24 Aı	nalyzed: 04/08/24
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	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
LCS (2414040-BS1)							Prepared:	04/03/24 Aı	nalyzed: 04/08/24
Benzene	2.63	0.0250	2.50		105	70-130			
Ethylbenzene	2.55	0.0250	2.50		102	70-130			
Toluene	2.46	0.0250	2.50		98.4	70-130			
o-Xylene	2.42	0.0250	2.50		96.8	70-130			
p,m-Xylene	4.84	0.0500	5.00		96.7	70-130			
Total Xylenes	7.26	0.0250	7.50		96.8	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			
Matrix Spike (2414040-MS1)				Sourc	e: E40401	2-02	Prepared:	04/03/24 Aı	nalyzed: 04/08/24
Benzene	2.61	0.0250	2.50	ND	104	48-131			
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135			
Toluene	2.44	0.0250	2.50	ND	97.4	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.5	43-135			
p,m-Xylene	4.98	0.0500	5.00	ND	99.5	43-135			
Total Xylenes	7.47	0.0250	7.50	ND	99.5	43-135			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
Matrix Spike Dup (2414040-MSD1)				Sourc	e: E40401	2-02	Prepared:	04/03/24 Aı	nalyzed: 04/08/24
Benzene	2.67	0.0250	2.50	ND	107	48-131	2.33	23	
Ethylbenzene	2.62	0.0250	2.50	ND	105	45-135	3.85	27	
Toluene	2.52	0.0250	2.50	ND	101	48-130	3.47	24	
p-Xylene	2.51	0.0250	2.50	ND	100	43-135	0.920	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	1.31	27	
Total Xylenes	7.55	0.0250	7.50	ND	101	43-135	1.18	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
			0.500		100	50 100			



0.500

100

70-130

0.502

Surrogate: Toluene-d8

Surrogate: Toluene-d8

QC Summary Data

Matador Resources, LLC.Project Name:Merchant CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-C-0001Dallas TX, 75240Project Manager:Ashley Giovengo4/15/20243:45:47PM

	Project Number: Project Manager:						4	/15/2024 3:45:47PM		
Nonhalogenated Organics by EPA 8015D - GRO										
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
						Prepared:	04/03/24 A	nalyzed: 04/08/24		
ND	20.0									
0.523		0.500		105	70-130					
0.493		0.500		98.5	70-130					
0.509		0.500		102	70-130					
						Prepared:	04/03/24 A	nalyzed: 04/08/24		
54.9	20.0	50.0		110	70-130					
0.514		0.500		103	70-130					
0.492		0.500		98.3	70-130					
0.500		0.500		100	70-130					
			Source:	E40401	2-02	Prepared:	04/03/24 A	nalyzed: 04/08/24		
56.8	20.0	50.0	ND	114	70-130					
0.533		0.500		107	70-130					
0.487		0.500		97.4	70-130					
0.516		0.500		103	70-130					
			Source:	E40401	2-02	Prepared:	04/03/24 A	nalyzed: 04/08/24		
58.0	20.0	50.0	ND	116	70-130	2.17	20			
0.536		0.500		107	70-130					
	Result mg/kg ND 0.523 0.493 0.509 54.9 0.514 0.492 0.500 56.8 0.533 0.487 0.516	Nonhalogenated Contact Nonhalogenated Contact	Nonhalogenated Organics Nonhalogenated Organics	Nonhalogenated Organics by EPA 8014 Reporting	Nonhalogenated Organics by EPA 8015D - G	Nonhalogenated Organics by EPA 8015D - GRO	Nonhalogenated Organics by EPA 8015D - GRO Result Rec Limit Level Result Rec Limits RPD mg/kg mg/kg mg/kg mg/kg % % % % % % % % % % % % % % % % % %	Nonhalogenated Organics by EPA 8015D - GRO Result Reporting Spike Result Rec Limits RPD Limit mg/kg mg/		

0.500

0.519

104

70-130



QC Summary Data

Matador Resources, LLC.Project Name:Merchant CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-C-0001Dallas TX, 75240Project Manager:Ashley Giovengo4/15/20243:45:47PM

Dallas 1X, /5240		Project Manage	r: As	niey Gioveng	go			4/1.	5/2024 3:45:4/PM
	Nonha	logenated Or	ganics by	EPA 8015I	O - DRO	/ORO		A	Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2414056-BLK1)							Prepared:	04/04/24 Ana	alyzed: 04/05/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	56.4		50.0		113	50-200			
CS (2414056-BS1)							Prepared:	04/04/24 Ana	lyzed: 04/05/24
Diesel Range Organics (C10-C28)	296	25.0	250		118	38-132			
urrogate: n-Nonane	61.2		50.0		122	50-200			
Matrix Spike (2414056-MS1)				Sourc	e: E40401	2-03	Prepared:	04/04/24 Ana	lyzed: 04/05/24
Diesel Range Organics (C10-C28)	341	25.0	250	48.5	117	38-132			
urrogate: n-Nonane	58.4		50.0		117	50-200			
Matrix Spike Dup (2414056-MSD1)				Sourc	e: E40401	2-03	Prepared:	04/04/24 Ana	alyzed: 04/05/24
Diesel Range Organics (C10-C28)	332	25.0	250	48.5	113	38-132	2.70	20	
urrogate: n-Nonane	59.2		50.0		118	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Merchant CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	•
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/15/2024 3:45:47PM

Danas 1X, 73240		1 Toject Wianage	710	sincy Gloveng	50				9.19.171W
	Nonha	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO		1	Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2415076-BLK1)							Prepared:	04/12/24 Ana	alyzed: 04/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.4		50.0		94.8	50-200			
LCS (2415076-BS1)							Prepared:	04/12/24 Ana	alyzed: 04/13/24
Diesel Range Organics (C10-C28)	280	25.0	250		112	38-132			
Surrogate: n-Nonane	50.6		50.0		101	50-200			
Matrix Spike (2415076-MS1)				Sourc	e: E40410	0-02	Prepared:	04/12/24 Ana	alyzed: 04/13/24
Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	48.7		50.0		97.4	50-200			
Matrix Spike Dup (2415076-MSD1)				Sourc	e: E40410	0-02	Prepared:	04/12/24 Ana	alyzed: 04/13/24
Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	38-132	2.82	20	
Surrogate: n-Nonane	50.9		50.0		102	50-200			



Chloride

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Ierchant CTB 3003-C-0001				Reported:	
Dallas TX, 75240		Project Manager	: A			4/15/2024 3:45:47PM			
		Analyst: JM							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2414046-BLK1)							Prepared:	04/03/24	Analyzed: 04/03/24
Chloride	ND	20.0							
LCS (2414046-BS1)							Prepared:	04/03/24	Analyzed: 04/03/24
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2414046-MS1)				Sourc	e: E40401	2-02	Prepared:	04/03/24	Analyzed: 04/03/24
Chloride	367	20.0	250	129	95.2	80-120			
Matrix Spike Dup (2414046-MSD1)				Sourc	e: E40401	2-02	Prepared:	04/03/24	Analyzed: 04/03/24

250

20.0

129

98.2

80-120

1.98

375

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

I	Matador Resources, LLC.	Project Name:	Merchant CTB	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/15/24 15:45

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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Client: I	Matador Pro	duction C	Company		Bill To				La	ab U	se Onl	У				TA	EPA P	rogram	
	Merchan				Attention: Ensolum LLC			WO#			Job N			1D	2D	3D	Standard	CWA	SDWA
_	Manager: As				Address: on file		E	404	017	2			-0001				X		
7	: 3122 Natio				City, State, Zip:						Analys	is an	d Metho	d					RCRA
	te, Zip: Carls		88220		Phone: 575-988-0055			by by	3										
0	575-988-005	1			Email: agiovengo@ensolum.cor	n		ORC										State	
	giovengo@e	nsolum.c	com					RO/	21	0		0.0		Z	1	×	NM CO	UT AZ	TX
Report o	lue by:							0/0	. 80	826	6010	B 30	표			X	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	тсед трн	BGDOC		GDOC		Remarks	
11:56	4/1/2024	S	1		SS01 - 0'	1								Х					
10:47	4/1/2024	S	1		SS02 - 0'	7								х					
10:56	4/1/2024	S	1		SS03 - 0'	3								х					
11:06	4/1/2024	S	1		SS04 - 0'	4								Х					
11:13	4/1/2024	S	1		SS05 - 0'	5							1	х					
10:18	4/1/2024	S	1		S-1 - 4'	P								х					
9:33	4/1/2024	S	1		S-12 - 5'	7								х					
10:17	4/1/2024	S	1		S-18 - 2'	8								х					
10:26	4/1/2024	S	1		S-19 - 2'	oj								х					
8:30	4/1/2024	S	1		S-20 - 3'	10								х					
Addition	al Instructio	ns: Plea	se CC: cl	ourton@enso	lum.com, agiovengo@ensolum.com,	chamilton@e	ensol	lum.c	om,	iestr	ella@	enso	lum.co	m					
				ty of this sample. I y be grounds for le	am aware that tampering with or intentionally misl gal action. Sampled by: Chad Hamilto						775 3 2 F U						ceived on ice the day less than 6 °C on subs	and the second second	led or
	ed by: (Signatu		Date O4/	- 1,1,1	Received by: (Signature)	Date 4-1-1	4	Time /C	15		Recei	ved	on ice:	La (Y	b Us	se On I	ly	*	
Mid	led by: (Signatu	1	Date	2-24 Time	Received by: (Signature)	Date 4-2	-24	Time	2c	0	<u>T1</u>			<u>T2</u>			<u>T3</u>		
1/	ed by: (Signatu	POSO	Date	-1-14 7	Received by: (Signature)	Gate 4/3/	24	Time	000)	AVG 1	Гет	o°C	4					
	trix: S - Soil, Sd - S					Containe													
					unless other arrangements are made. Hazardo									ient ex	pens	e. The	e report for the	analysis of t	he above
amples is	applicable only	to those sa	amples rec	eived by the labo	ratory with this COC. The liability of the labora	atory is limited t	to the	amour	nt paid	d for	on the r	eport	t.						



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Project:						ention: Ensolum LLC		Lab	WO#			Job N	lum			1D	2D	3D	Standard	CWA	SDWA
Project N	Manager: As	hley Giov	/engo		Ad	dress: on file		E	WO	112		230x	3-	C- 00	K				X		
Address:	3122 Natio	nal Parks	Hwy		Cit	y, State, Zip:		1 -				Analys	sis ar	nd Met	hod	1					RCRA
City, Stat	te, Zip: Carls	bad NM,	88220		Ph	one: 575-988-0055			by								-				
	575-988-005				Em	nail: agiovengo@ensolum.con	1		ORO											State	
Email: a	giovengo@e	ensolum.c	om						RO/(17	0		0.0			N		_	NM CO	UT AZ	TX
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	тсед трн		BGDOC		GDOC		Remarks	
9:18	4/1/2024	S	1			S-21 - 2'	11									х					
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Addition	al Instructio	ns: Plea	se CC: cl	ourton@ens	olum.com	, agiovengo@ensolum.com, c	hamilton@e	enso	lum.c	om,	iestr	ella@	ens	olum.	com	1					
A Commence				ty of this sample.		hat tampering with or intentionally misla Sampled by: Chad Hamilto													ceived on ice the day ess than 6 °C on subs		ed or
	ed by: (Signatu		Date	Tim	The Carlot Inches and the	Received by: (Signature Cly)	Date 4-2-3		Time	15		Recei	ived	on ice	2:	La	b Us	se On	ly		
Model	ed by: (Signatur	emple	Date	2-24 Tim	600	Received by: (Signature)	Date U-C	-14	Time 18	00		<u>T1</u>				T2			<u>T3</u>		
Relinquish	ed by: (Signatur	re) LBSo	U.		400	Received by: (Signature)	4/3/2	24	Time 0	300		AVG	Tem	p °C_	-	<u>f_</u>					
Sample Mat	trix: S - Soil, Sd - S	iolid, S g - Slu					Containe				p - p	oly/pl	astic	, ag - a							
						r arrangements are made. Hazardo									clie	ent ex	pens	e. The	report for the a	nalysis of t	he above
samples is	applicable only	to those sa	amples rec	eived by the lab	oratory wit	h this COC. The liability of the labora	tory is limited t	o the	amour	nt pai	d for	on the	repor	rt.							



e client expense. The report for the analysis of the above

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Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Printed: 4/3/2024 9:32:35AM

Instructions: Please take note of any NO checkmarks.

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

lient: Matador Resources, LLC.	Date Received:	04/03/24	08:00		Work Order ID:	E404012	
hone: (972) 371-5200	Date Logged In:	04/02/24	16:44		Logged In By:	Alexa Michaels	
mail: agiovngo@ensolum.com	Due Date:	04/09/24	17:00 (4 day TAT)				
Chain of Custody (COC)							
. Does the sample ID match the COC?		Yes					
Does the number of samples per sampling site location mat	tch the COC	Yes					
Were samples dropped off by client or carrier?		Yes	Carrier: Con	urier			
Was the COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes					
Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in	,	Yes					
i.e, 15 minute hold time, are not included in this disucssi			Г		Comme	nts/Resolution	
ample Turn Around Time (TAT) Did the COC indicate standard TAT, or Expedited TAT?		Yes					
ample Cooler			ı.				
Was a sample cooler received?		Yes	li i				
If yes, was cooler received in good condition?		Yes					
Was the sample(s) received intact, i.e., not broken?		Yes	•				
). Were custody/security seals present?		No	1				
I. If yes, were custody/security seals intact?		NA	ſ				
Was the sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are		Yes					
minutes of sampling	temperature: 4°	<u>c</u>					
ample Container			1				
4. Are aqueous VOC samples present?		No					
i. Are VOC samples collected in VOA Vials?		NA					
5. Is the head space less than 6-8 mm (pea sized or less)?		NA					
7. Was a trip blank (TB) included for VOC analyses?		NA	į				
B. Are non-VOC samples collected in the correct containers'	?	Yes	1				
. Is the appropriate volume/weight or number of sample contain	ners collected?	Yes					
ield Label							
Were field sample labels filled out with the minimum info Sample ID?	ormation;	Yes					
Date/Time Collected?		Yes	L				
Collectors name?		Yes					
ample Preservation	and?	No					
1. Does the COC or field labels indicate the samples were pr	iesciveu:	NA					
2. Are sample(s) correctly preserved?	1-0						
 Is lab filteration required and/or requested for dissolved n 	iciais?	No					
lultiphase Sample Matrix							
Does the sample have more than one phase, i.e., multipha		No					
7. If yes, does the COC specify which phase(s) is to be analy	yzed?	NA					
ubcontract Laboratory							
8. Are samples required to get sent to a subcontract laborato	ry?	No					
9. Was a subcontract laboratory specified by the client and it		NA	Subcontract Lab: 1	NA			
y. Was a subcontract laboratory opposition by the silent the							

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	Merchan					Attention: Ensolum LLC			b WO#			dol				1D	2D	3D	St	andard	CWA	SDWA
No. of Concession, Name of Street, or other Designation of Concession, Name of Street, or other Designation of Concession, Name of Street, Original Property and Concession, Original Property and Concession, Name of Street, Original Property and Concession, Original Proper	Manager: As				1	Address: on file		E	400	101	2	230	103-	C-00	01					X		
· Control of the cont	: 3122 Natio	and the same of the same				City, State, Zip:				,,,		Analy	/sis a	nd Me	thod	1						RCRA
In the Laboratory of the Labor	te, Zip: Carl		88220			Phone: 575-988-0055			þý					1					115			
	575-988-005					Email: agiovengo@ensolum.com			ORO	-		1 /					0				State	
The second second second	agiovengo@e	ensolum.c	com						0/0	1			0.			NN	80			NM CO	UT AZ	TX
Report of	due by:								GRO/DRO/ORO by	8021	8260	6010	300	I			0	X		×		
Time	Date Sampled	Matrix	No. of	C			Lab		GRC	by	þ	als 6	ride	T T		00	0	0				
Sampled	Date Sampled	IVIALIIX	Containers	Sample ID			Numbe	r	TPH 8015	BTEX	VOC	Metals	Chloride 300.0	тсеа трн		BGDOC	DRO	GDOC			Remarks	
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		S	1			5505	3									X	X			Deev	tra ch	-0-
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		S	1			3301 0	4	1								X				And	7.41	13/24
11:13	4/1/2024					SS05 - 0'	-	-							-					010		
		S	1			3303 - 0	5]					X						
10:18	4/1/2024				-	S-1 - 4'					-											
10.10	1/1/2024	S	1			3-1-4	6									X						-1
9:33	4/1/2024				-	S-12 - 5'		-														
3.33	17 17 2024	S	1			3-12 - 3	7									X						
10:17	4/1/2024				-	S-18 - 2'		-	-													
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10:26	4/1/2024					S-19 - 2'		-														
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8:30	4/1/2024		1			5 20 21	- 1			4			-							-		
0.50	4/1/2024	S	1			S-20 - 3'	1.0									X						
Addition	al Instruction	nc. Dles	oco CC, ab		1		-	_						- 1					-			
Addition	iai instructio	iis. Pied	ise cc: co	urtonwens	solum.c	om, agiovengo@ensolum.com, ch	iamilton@	enso	olum.c	om,	iestr	ella@	pens	olum	.com	1						
I Ifield sam	nler) attest to th	e validity an	d authoriticit	u of this sample	Lamana	are that tampering with or intentionally mislab	tie at		- 1			C										1-1
	of collection is o																			on ice the day n 6 °C on subse		led or
	ed by: (Signatu		Date		me acti			mar Ha													quent days.	
riciniquisir	COOY. (Signatu	-6)	1	2/24		Received by: (Signature)	Date 4-2	U	Time	015								e On	ly			
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-	Indrew 1650 19-1-14 2400 DC 4/3/24 0800 AVGTEMP°C 4																					
	rix: S - Soil, Sd - S						Contain	er Typ	oe: g - j	glass,	p - p	oly/p	lastic	, ag -	ambe	er gla	ass, v	- VOA	4			
Note: Sam	ples are discard	led 30 days	after result	ts are reporte	d unless c	ther arrangements are made. Hazardou	s samples wi	ll be re	eturne	d to cl	ient o	r disp	osed	of at th	ne clie	ent ex	pense	e. The	e repo	ort for the a	nalysis of t	he above
samples is	applicable only	to those sa	amples rece	ived by the la	boratory	with this COC. The liability of the laborate	ry is limited	to the	amou	nt paid	d for	on the	repo	rt.								



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	Natador Pro		Company		100	Bill To				La	ab Us	e Only		7777			TA	AT	EPA P	ogram
Project:						Attention: Ensolum LLC		Lab	WO#			Job N			1D	2D	3D	Standard	CWA	SDWA
	Manager: As					Address: on file		E	404	12		2300	3-6	0001				X		
	3122 Natio					City, State, Zip:						Analysi	s and	Metho	bd					RCRA
	e, Zip: Carls		88220		1000	Phone: 575-988-0055	-		yd (
V Inches	giovengo@e		om			mail: agiovengo@ensolum.com			ORC										State	
Report d		ensolum.c	.Om						JRO/	8021	00	0	0.00	-	N		X	NM CO	UT AZ	TX
Time									RO/E	by 80	y 826	601	le 30	E				×		
Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	BTEX b	VOC by 8260	Metals 6010	Chloride 300.0	ורבת ואו	BGDOC		GDOC		Remarks	
9:18	4/1/2024	S	1			S-21 - 2'	11								X					
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															- 1					
date or time	of collection is a	e validity and	authenticit	y of this sample. It be grounds for lea	am awar	e that tampering with or intentionally mislabel												eived on ice the day		ed or
	d by: (Signatur		Date	Time	gal action		_	ar Ham				eceived p	acked II	i ice at ai		_			quent days,	
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Sample Matr	x: S - Soil, Sd - Se	olid Se Stud	19- A- Aqua		400	1400	(1)(0	4	00	W	_	AVG T			1_					
					aless of	her arrangements are made. Hazardous	Container	Type	g - g	tass,	p - po	oly/plas	tic, a	g - ami	per gla	iss, v	- VOA		1	
samples is a	pplicable only	to those sa	mples rece	ived by the labor	atory w	ith this COC. The liability of the laboratory	is limited to	the a	amount	t paid	for o	n the re	nort	it tile ci	ient ex	pense	. The	report for the a	naiysis of th	ne above



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Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Merchant CTB

Work Order: E404012

Job Number: 23003-C-0001

Received: 4/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/9/24

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: 4/9/24

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

Project Name: Merchant CTB

Workorder: E404012

Date Received: 4/3/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/3/2024 8:00:00AM, under the Project Name: Merchant CTB.

The analytical test results summarized in this report with the Project Name: Merchant CTB 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 reguarding 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

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Southern New Mexico Area

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Michelle Golzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Merchant CTB	Donoutodi
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/09/24 12:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 -0'	E404012-01A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
SS02 -0'	E404012-02A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
SS03 -0'	E404012-03A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
SS04 -0'	E404012-04A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
SS05 -0'	E404012-05A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S -1-4'	E404012-06A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S-12 -5'	E404012-07A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S-18 -2'	E404012-08A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S-19 -2'	E404012-09A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S-20 -3'	E404012-10A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.
S-21 -2'	E404012-11A	Soil	04/01/24	04/03/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 12:16:22PM

SS01 -0' E404012-01

		2101012 01					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2414040
Benzene	ND	0.0250		1	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250		1	04/03/24	04/08/24	
Toluene	ND	0.0250		1	04/03/24	04/08/24	
o-Xylene	ND	0.0250		1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500		1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0		1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0		1	04/04/24	04/05/24	
Surrogate: n-Nonane		116 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2414046
Chloride	ND	20.0	·	1	04/03/24	04/03/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 12:16:22PM

SS02 -0' E404012-02

		L-10-1012-02				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Analyte				1	Allalyzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2414040
Benzene	ND	0.0250	1	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/03/24	04/08/24	
Toluene	ND	0.0250	1	04/03/24	04/08/24	
o-Xylene	ND	0.0250	1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		109 %	70-130	04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130	04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		109 %	70-130	04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130	04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2414056
Diesel Range Organics (C10-C28)	25.3	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		121 %	50-200	04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: JM		Batch: 2414046
Chloride	129	20.0	1	04/03/24	04/03/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 12:16:22PM

SS03 -0' E404012-03

		E404012-03					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: RK	S		Batch: 2414040
Benzene	ND	0.0250	1		04/03/24	04/08/24	
Ethylbenzene	ND	0.0250	1	Į.	04/03/24	04/08/24	
Toluene	ND	0.0250	1	l	04/03/24	04/08/24	
o-Xylene	ND	0.0250	1	Į.	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500	1	l	04/03/24	04/08/24	
Total Xylenes	ND	0.0250	1		04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		105 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		106 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: RK	S		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		105 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		106 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KM	1		Batch: 2414056
Diesel Range Organics (C10-C28)	48.5	25.0	1		04/04/24	04/05/24	
Oil Range Organics (C28-C36)	55.1	50.0	1	l	04/04/24	04/05/24	
Surrogate: n-Nonane		115 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: JM			Batch: 2414046
Chloride	69.4	20.0	1		04/03/24	04/04/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 12:16:22PM

SS04 -0' E404012-04

		E404012-04					
Aughte	Result	Reporting Limit		ution	Duomonod	Analyzad	Notes
Analyte	Kesuit	Limit	Dill	uuon	Prepared	Analyzed	inotes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2414040
Benzene	ND	0.0250		1	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250		1	04/03/24	04/08/24	
Toluene	ND	0.0250		1	04/03/24	04/08/24	
o-Xylene	ND	0.0250		1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500		1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		103 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		103 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0		1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	:	1	04/04/24	04/05/24	
Surrogate: n-Nonane		116 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2414046
Chloride	130	20.0		1	04/03/24	04/04/24	
Chloride	130	20.0		1	04/03/24	04/04/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 12:16:22PM

SS05 -0' E404012-05

Dagult	Reporting	Dil	ution	Duomonod	Amalyzad	Notes
Kesuit	Limit	Dill	ution	rrepared	Anaiyzed	Notes
mg/kg	mg/kg		Analyst	: RKS		Batch: 2414040
ND	0.0250		1	04/03/24	04/08/24	
ND	0.0250		1	04/03/24	04/08/24	
ND	0.0250		1	04/03/24	04/08/24	
ND	0.0250		1	04/03/24	04/08/24	
ND	0.0500		1	04/03/24	04/08/24	
ND	0.0250		1	04/03/24	04/08/24	
	104 %	70-130		04/03/24	04/08/24	
	103 %	70-130		04/03/24	04/08/24	
	103 %	70-130		04/03/24	04/08/24	
mg/kg	mg/kg		Analyst	: RKS		Batch: 2414040
ND	20.0		1	04/03/24	04/08/24	
	104 %	70-130		04/03/24	04/08/24	
	103 %	70-130		04/03/24	04/08/24	
	103 %	70-130		04/03/24	04/08/24	
mg/kg	mg/kg		Analyst	: KM		Batch: 2414056
ND	25.0		1	04/04/24	04/05/24	
ND	50.0		1	04/04/24	04/05/24	
	114 %	50-200		04/04/24	04/05/24	
mg/kg	mg/kg		Analyst	: JM		Batch: 2414046
197	20.0		1	04/03/24	04/04/24	
	ND Mg/kg ND Mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 IO3 % 103 % IO4 % 103 % IO5 % IO6 % IO8 % IO8 % IO9 % IO8 % IO9 % IO9 % IO9 %	Result Limit Dil mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 104 % 70-130 103 % 70-130 103 % 70-130 mg/kg mg/kg ND 20.0 103 % 70-130 103 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 114 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 104 % 70-130 103 % 70-130 103 % 70-130 mg/kg mg/kg Analyst ND 20.0 1 103 % 70-130 1 mg/kg mg/kg Analyst ND 25.0 1 ND 50.0 1 114 % 50-200 mg/kg mg/kg Analyst	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 04/03/24 ND 0.0250 1 04/03/24 ND 0.0250 1 04/03/24 ND 0.0250 1 04/03/24 ND 0.0500 1 04/03/24 ND 0.0250 1 04/03/24 ND 70-130 04/03/24 103 % 70-130 04/03/24 103 % 70-130 04/03/24 104 % 70-130 04/03/24 103 % 70-130 04/03/24 103 % 70-130 04/03/24 103 % 70-130 04/03/24 103 % 70-130 04/03/24 103 % 70-130 04/03/24 103 % 70-130 04/03/24 103 % 70-130 04/03/24 103 % 70-130 04/03/24 ND 25.0 1	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 04/03/24 04/08/24 ND 0.0500 1 04/03/24 04/08/24 ND 0.0250 1 04/03/24 04/08/24 ND 0.0250 1 04/03/24 04/08/24 104 % 70-130 04/03/24 04/08/24 103 % 70-130 04/03/24 04/08/24 mg/kg mg/kg Analyst: RKS ND 20.0 1 04/03/24 04/08/24 103 % 70-130 04/03/24 04/08/24 103 % 70-130 04/03/24 04/08/24 103 % 70-130 04/03/24 04/08/24 103 % 70-130



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 12:16:22PM

S -1-4'

		E404012-06						
Reporting								
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414040	
Benzene	ND	0.0250	1	1	04/03/24	04/08/24		
Ethylbenzene	ND	0.0250		1	04/03/24	04/08/24		
Toluene	ND	0.0250		1	04/03/24	04/08/24		
o-Xylene	ND	0.0250		1	04/03/24	04/08/24		
p,m-Xylene	ND	0.0500		1	04/03/24	04/08/24		
Total Xylenes	ND	0.0250		1	04/03/24	04/08/24		
Surrogate: Bromofluorobenzene		108 %	70-130		04/03/24	04/08/24		
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/03/24	04/08/24		
Surrogate: Toluene-d8		105 %	70-130		04/03/24	04/08/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414040	
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/03/24	04/08/24		
Surrogate: Bromofluorobenzene		108 %	70-130		04/03/24	04/08/24		
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/03/24	04/08/24		
Surrogate: Toluene-d8		105 %	70-130		04/03/24	04/08/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2414056	
Diesel Range Organics (C10-C28)	ND	25.0		1	04/04/24	04/05/24		
Oil Range Organics (C28-C36)	ND	50.0		1	04/04/24	04/05/24		
Surrogate: n-Nonane		109 %	50-200		04/04/24	04/05/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2414046	
Chloride	22.6	20.0		1	04/03/24	04/04/24		



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 12:16:22PM

S-12 -5'

		E404012-07					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2414040
Benzene	ND	0.0250		1	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250		1	04/03/24	04/08/24	
Toluene	ND	0.0250		1	04/03/24	04/08/24	
o-Xylene	ND	0.0250		1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500		1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		101 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		101 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0		1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0		1	04/04/24	04/05/24	
Surrogate: n-Nonane		113 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2414046
Chloride	147	20.0		1	04/03/24	04/04/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 12:16:22PM

S-18 -2'

E404012-08

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RI	ζS		Batch: 2414040
Benzene	ND	0.0250	1		04/03/24	04/08/24	
Ethylbenzene	ND	0.0250	1		04/03/24	04/08/24	
Toluene	ND	0.0250	1		04/03/24	04/08/24	
o-Xylene	ND	0.0250	1		04/03/24	04/08/24	
p,m-Xylene	ND	0.0500	1		04/03/24	04/08/24	
Total Xylenes	ND	0.0250	1		04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		105 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RI	ΚS		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0	1		04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		106 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		105 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KI	М		Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0	1		04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1		04/04/24	04/05/24	
Surrogate: n-Nonane		112 %	50-200		04/04/24	04/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: JM	1		Batch: 2414046
Amons by ETA 500.0/7050A							



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 12:16:22PM

S-19 -2' E404012-09

	_	Reporting	_				
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: 1	RKS		Batch: 2414040
Benzene	ND	0.0250	1	1	04/03/24	04/08/24	
Ethylbenzene	ND	0.0250	1	1	04/03/24	04/08/24	
Toluene	ND	0.0250	1	1	04/03/24	04/08/24	
o-Xylene	ND	0.0250	1	1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500	1	1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250	1	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		102 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: 1	RKS		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		102 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: 1	KM		Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/04/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/04/24	04/06/24	
Surrogate: n-Nonane		113 %	50-200		04/04/24	04/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: .	ЛМ		Batch: 2414046
Chloride	121	20.0	1	1	04/03/24	04/04/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 12:16:22PM

S-20 -3' E404012-10

Analyte	Result	Reporting Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst		1 mary 200	Batch: 2414040
Benzene	ND	0.0250		1	04/03/24	04/08/24	Batem 2 11 10 10
Ethylbenzene	ND	0.0250		1	04/03/24	04/08/24	
Toluene	ND	0.0250		1	04/03/24	04/08/24	
o-Xylene	ND	0.0250		1	04/03/24	04/08/24	
p,m-Xylene	ND	0.0500		1	04/03/24	04/08/24	
Total Xylenes	ND	0.0250		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		111 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2414040
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/03/24	04/08/24	
Surrogate: Bromofluorobenzene		111 %	70-130		04/03/24	04/08/24	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		04/03/24	04/08/24	
Surrogate: Toluene-d8		102 %	70-130		04/03/24	04/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2414056
Diesel Range Organics (C10-C28)	ND	25.0		1	04/04/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0		1	04/04/24	04/06/24	
Surrogate: n-Nonane		108 %	50-200		04/04/24	04/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: JM			Batch: 2414046
Chloride	25.2	20.0		1	04/03/24	04/04/24	

Γ	Matador Resources, LLC.	Project Name:	Merchant CTB	
	5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
	Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/9/2024 12:16:22PM

S-21 -2'

		E404012-11							
Reporting									
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414040		
Benzene	ND	0.0250		1	04/03/24	04/08/24			
Ethylbenzene	ND	0.0250		1	04/03/24	04/08/24			
Toluene	ND	0.0250		1	04/03/24	04/08/24			
o-Xylene	ND	0.0250		1	04/03/24	04/08/24			
p,m-Xylene	ND	0.0500		1	04/03/24	04/08/24			
Total Xylenes	ND	0.0250		1	04/03/24	04/08/24			
Surrogate: Bromofluorobenzene		104 %	70-130		04/03/24	04/08/24			
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/03/24	04/08/24			
Surrogate: Toluene-d8		103 %	70-130		04/03/24	04/08/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2414040		
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/03/24	04/08/24			
Surrogate: Bromofluorobenzene		104 %	70-130		04/03/24	04/08/24			
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/03/24	04/08/24			
Surrogate: Toluene-d8		103 %	70-130		04/03/24	04/08/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2414056		
Diesel Range Organics (C10-C28)	ND	25.0		1	04/04/24	04/06/24			
Oil Range Organics (C28-C36)	ND	50.0		1	04/04/24	04/06/24			
Surrogate: n-Nonane		111 %	50-200		04/04/24	04/06/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2414046		

20.0

04/03/24

04/04/24

ND



Chloride

QC Summary Data

Matador Resources, LLC.
Project Name: Merchant CTB

5400 LBJ Freeway, Suite 1500
Project Number: 23003-C-0001

Dallas TX, 75240
Project Manager: Ashley Giovengo

4/9/2024 12:16:22PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			4/9/	/2024 12:16:22PM
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В		А	analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2414040-BLK1)							Prepared: 0-	4/03/24 Analy	zed: 04/08/24
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	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
LCS (2414040-BS1)							Prepared: 0	4/03/24 Analy	zed: 04/08/24
Benzene	2.63	0.0250	2.50		105	70-130			
Ethylbenzene	2.55	0.0250	2.50		102	70-130			
Toluene	2.46	0.0250	2.50		98.4	70-130			
o-Xylene	2.42	0.0250	2.50		96.8	70-130			
p,m-Xylene	4.84	0.0500	5.00		96.7	70-130			
Total Xylenes	7.26	0.0250	7.50		96.8	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			
Matrix Spike (2414040-MS1)				Source:	E404012-	02	Prepared: 04	4/03/24 Analy	zed: 04/08/24
Benzene	2.61	0.0250	2.50	ND	104	48-131			
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135			
Toluene	2.44	0.0250	2.50	ND	97.4	48-130			
o-Xylene	2.49	0.0250	2.50	ND	99.5	43-135			
p,m-Xylene	4.98	0.0500	5.00	ND	99.5	43-135			
Total Xylenes	7.47	0.0250	7.50	ND	99.5	43-135			
Surrogate: Bromofluorobenzene	0.499	·	0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
Matrix Spike Dup (2414040-MSD1)				Source:	E404012-	02	Prepared: 0	4/03/24 Analy	zed: 04/08/24
Benzene	2.67	0.0250	2.50	ND	107	48-131	2.33	23	
Ethylbenzene	2.62	0.0250	2.50	ND	105	45-135	3.85	27	
Toluene	2.52	0.0250	2.50	ND	101	48-130	3.47	24	
o-Xylene	2.51	0.0250	2.50	ND	100	43-135	0.920	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	1.31	27	
Total Xylenes	7.55	0.0250	7.50	ND	101	43-135	1.18	27	
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
0 10 D. II 1	0.404		0.500		067	70 120			



0.500

0.500

96.7

100

70-130

70-130

0.484

0.502

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

QC Summary Data

Matador Resources, LLC.Project Name:Merchant CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-C-0001Dallas TX, 75240Project Manager:Ashley Giovengo4/9/2024 12:16:22PM

Dallas TX, 75240		Project Manager:	As	shley Giovengo					4/9/2024 12:16:22PM
	No	nhalogenated C	organics	by EPA 8015	SD - Gl	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2414040-BLK1)							Prepared: 0	4/03/24 An	nalyzed: 04/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
LCS (2414040-BS2)							Prepared: 0	4/03/24 An	nalyzed: 04/08/24
Gasoline Range Organics (C6-C10)	54.9	20.0	50.0		110	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.3	70-130			
Surrogate: Toluene-d8	0.500		0.500		100	70-130			
Matrix Spike (2414040-MS2)				Source: E	404012-0	02	Prepared: 0	4/03/24 An	nalyzed: 04/08/24
Gasoline Range Organics (C6-C10)	56.8	20.0	50.0	ND	114	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			
Matrix Spike Dup (2414040-MSD2)				Source: E	404012-0	02	Prepared: 0	4/03/24 An	nalyzed: 04/08/24
Gasoline Range Organics (C6-C10)	58.0	20.0	50.0	ND	116	70-130	2.17	20	
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			

0.500

0.500

0.495

0.519

70-130

70-130

99.0

104



QC Summary Data

Matador Resources, LLC.Project Name:Merchant CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-C-0001Dallas TX, 75240Project Manager:Ashley Giovengo4/9/2024 12:16:22PM

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	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2414056-BLK1)							Prepared: 0	4/04/24 Ana	lyzed: 04/05/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.4		50.0		113	50-200			
LCS (2414056-BS1)							Prepared: 0	4/04/24 Ana	lyzed: 04/05/24
Diesel Range Organics (C10-C28)	296	25.0	250		118	38-132			
Surrogate: n-Nonane	61.2		50.0		122	50-200			
Matrix Spike (2414056-MS1)				Source:	E404012-	03	Prepared: 0	4/04/24 Ana	lyzed: 04/05/24
Diesel Range Organics (C10-C28)	341	25.0	250	48.5	117	38-132			
Surrogate: n-Nonane	58.4		50.0		117	50-200			
Matrix Spike Dup (2414056-MSD1)				Source:	E404012-	03	Prepared: 0	4/04/24 Ana	lyzed: 04/05/24
Diesel Range Organics (C10-C28)	332	25.0	250	48.5	113	38-132	2.70	20	
Surrogate: n-Nonane	59.2		50.0		118	50-200			



Chloride

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	: 2	Merchant CTB 3003-C-0001 Ashley Gioveng	go				Reported: 4/9/2024 12:16:22PM
		Anions	by EPA	300.0/9056 <i>A</i>	1				Analyst: JM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2414046-BLK1)							Prepared: 0	4/03/24 A	nalyzed: 04/03/24
Chloride	ND	20.0							
LCS (2414046-BS1)							Prepared: 0	4/03/24 A	nalyzed: 04/03/24
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2414046-MS1)				Source:	E404012-	02	Prepared: 0	4/03/24 A	nalyzed: 04/03/24
Chloride	367	20.0	250	129	95.2	80-120			
Matrix Spike Dup (2414046-MSD1)				Source:	E404012-	02	Prepared: 0	4/03/24 A	nalyzed: 04/03/24

250

20.0

129

98.2

80-120

1.98

20

375

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:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/09/24 12:16

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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	Merchan				-	on: Ensolum LLC			WO#			Job Number				1D	2D	D 3D Standa		dard	CWA	SDWA
Project I	Manager: As	hley Giov	vengo			Address: on file		E	404	101	2	23003-C-0001		11				X				
	: 3122 Natio		-		7.00	ate, Zip:						Analys	sis a	nd Met	thod							RCRA
	te, Zip: Carls		88220		Phone:	575-988-0055			by													
5	<u>575-988-005</u>				Email:	agiovengo@ensolum.com			ORC												State	
	giovengo@e	nsolum.	com		4				RO/	77	0		0.0		- 1	Z		×	NN	и со	UT AZ	TX
Report o	lue by:								0/0	/ 80	826	601	e 30	표				10.4	×			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	тсео трн		BGDOC		GDOC			Remarks	
11:56	4/1/2024	S	1		SS	01 - 0'	1									х						
10:47	4/1/2024	S	1		SS	02 - 0'	7									х						
10:56	4/1/2024	S	1		SS	03 - 0'	3									х						
11:06	4/1/2024	S	1		SS	04 - 0'	4									х						
11:13	4/1/2024	S	1		SS	05 - 0'	5									х	H					
10:18	4/1/2024	S	1		S-	1 - 4'	6									х						
9:33	4/1/2024	S	1		S-:	12 - 5'	7									х						
10:17	4/1/2024	S	1		S-:	18 - 2'	8									х						
10:26	4/1/2024	S	1		S-:	19 - 2'	O						H			х						
8:30	4/1/2024	S	1		S-2	20 - 3'	10									х						
Addition	al Instructio	ns: Plea	se CC: cl	ourton@enso	lum.com, agi	ovengo@ensolum.com, ch	amilton@e	nso	lum.c	om,	iestr	ella@	ens	olum.	com	1						
1.0				ty of this sample. y be grounds for le		mpering with or intentionally mislabe Sampled by: Chad Hamilton, I						177.7.2.00									hey are sampl quent days.	ed or
	ed-by: (Signatu		Date O4/	- 101 10	Rec	leived by: (Signature)	Date 4-1-2	4	Time / C	015		Recei	ved	on ice	e:	(V)	Us N	e Only	У			
Wind	ed by: (Signatu	1	Date	1-24 Time	Red COO	dived by: (Signature)	Date 4-2	-24	Time	&c	0	<u>T1</u>				T2			<u></u>			
1/	ed by: (Signatu	PRO	Date	-1-24 7	400 Rec	reived by: (Signature)	4/3/	24	Time 04	Bac)	AVG	Tem	np °C_	4	f_						
Sample Ma	trix: S - Soil, Sd - S						Containe				p - p	oly/pla	astic	, ag - a								
						ingements are made. Hazardous									e clie	nt exp	ense	. The	report fo	or the a	nalysis of t	ne above
samples is	applicable only	to those sa	amples rec	eived by the labo	oratory with this	COC. The liability of the laborato	ry is limited t	o the	amour	nt pai	d for	on the	repo	rt.								





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Project:	Merchant	CTB			Att	ention: Ensolum LLC		Lab	WO#			Job N			1D	2D	3D	Standard		CWA	SDWA
Project I	Manager: As	hley Giov	vengo		Ad	dress: on file		E	WO#	112		230C	13-	G- 0001					X		
Address	3122 Natio	nal Parks	Hwy		Cit	y, State, Zip:		-						nd Metho	od						RCRA
City, Sta	te, Zip: Carls	bad NM,	88220		Ph	one: 575-988-0055			by						T						
Phone:	575-988-005	5			Em	ail: agiovengo@ensolum.com)		ORO		1 3							1 1		State	
mail: a	giovengo@e	nsolum.o	com					1	0/0	1	-		0.		ΣN			1 1	им со	UT AZ	TX
Report o	lue by:				2				J/DR	802	3260	010	300	Ξ.		1	×	1 1	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	тсед трн	ВСБОС		GDOC			Remarks	
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and the second				ty of this sample. I		hat tampering with or intentionally misla Sampled by: Chad Hamilton													ice the day t 6°C on subse	hey are sample quent days.	ed or
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Mic	Ulle Ei	cupe	4	2-24 14	000	CANCEW COND	4-1	-24	-	00		<u>T1</u>			<u>T2</u>]	3		
Relinquish	ed by: (Signatur	(B)	U.		400	Received by: (Signature)	4/3/2	24	Time OF	300		AVG	Tem	p °C	4						
Sample Ma	trix: S - Soil, Sd - S	olid, S g - Slu	idge, A - Aqu	eous, O - Other			Containe	r Typ	e: g - g	glass,					oer gl	ass, v	- VO	Α			
						r arrangements are made. Hazardo									lient e	xpens	e. Th	ne repor	t for the a	nalysis of th	ne above



e client expense. The report for the analysis of the above

envirotechia

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Printed: 4/3/2024 9:32:35AM

Instructions: Please take note of any NO checkmarks.

f we receive no response concerning	these items within 24 hours of the date of this notice, al	Il the samples will be analyzed as requested.
-------------------------------------	--	---

	Date Received:	04/03/24	08:00	Work Order ID:	E404012
Phone: (972) 371-5200	Date Logged In:	04/02/24	16:44	Logged In By:	Alexa Michaels
Email: agiovngo@ensolum.com	Due Date:	04/09/24	17:00 (4 day TAT)		
Chain of Custody (COC)					
1. Does the sample ID match the COC?		Yes			
2. Does the number of samples per sampling site location mat	ch the COC	Yes			
Were samples dropped off by client or carrier?		Yes	Carrier: Courier		
. Was the COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes			
. Were all samples received within holding time?	•	Yes			
Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion				Commen	ts/Resolution
Sample Turn Around Time (TAT)					
6. Did the COC indicate standard TAT, or Expedited TAT?		Yes			
Sample Cooler			ľ		
/. Was a sample cooler received?		Yes	1		
B. If yes, was cooler received in good condition?		Yes			
. Was the sample(s) received intact, i.e., not broken?		Yes			
0. Were custody/security seals present?		No	1		
11. If yes, were custody/security seals intact?		NA	1		
12. Was the sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling 13. If no visible ice, record the temperature. Actual sample		Yes C			
	tomporanare:	_			
Sample Container		No			
4. Are aqueous VOC samples present?		NA NA	1		
5. Are VOC samples collected in VOA Vials?		NA			
6. Is the head space less than 6-8 mm (pea sized or less)?					
7. Was a trip blank (TB) included for VOC analyses?		NA			
8. Are non-VOC samples collected in the correct containers		Yes			
9. Is the appropriate volume/weight or number of sample contain	ers collected?	Yes			
Field Label	.•				
20. Were field sample labels filled out with the minimum info	rmation:	Yes	·		
Sample ID? Date/Time Collected?		Yes			
Collectors name?		Yes			
Sample Preservation					
21. Does the COC or field labels indicate the samples were pr	eserved?	No			
22. Are sample(s) correctly preserved?		NA			
24. Is lab filteration required and/or requested for dissolved m	etals?	No			
		1.0			
Multiphase Sample Matrix	9				
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 analy	zed?	NA			
Subcontract Laboratory					
28. Are samples required to get sent to a subcontract laborator	у?	No			
29. Was a subcontract laboratory specified by the client and if		NA	Subcontract Lab: NA		
29. was a subcontract laboratory specified by the chefit and h					

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Merchant CTB

Work Order: E405022

Job Number: 23003-0002

Received: 5/3/2024

Revision: 0

Report Reviewed By:

Draft Walter Hinchman Laboratory Director 5/3/24

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: 5/3/24

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

Project Name: Merchant CTB

Workorder: E405022

Date Received: 5/3/2024 5:00:00AM

Ashley Giovengo,

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

The analytical test results summarized in this report with the Project Name: Merchant CTB 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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Sample Summary

Matador Resources, LLC.	Project Name:	Merchant CTB	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/03/24 16:48

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS06 -0'	E405022-01A Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
SS07 -0'	E405022-02A Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
S-8 - 4.5'	E405022-03A Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
S-11 -5'	E405022-04A Soil	05/01/24	05/03/24	Glass Jar, 2 oz.
S-11 -6'	E405022-05A Soil	05/01/24	05/03/24	Glass Jar. 2 oz.



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/3/2024 4:48:11PM

SS06 -0' E405022-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2418115
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
o-Xylene	ND	0.0250	1	05/03/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2418115
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2418120
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/03/24	
Surrogate: n-Nonane		103 %	50-200	05/03/24	05/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2418123
Chloride	31.4	20.0	1	05/03/24	05/03/24	

Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/3/2024 4:48:11PM

SS07 -0' E405022-02

		E403022-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RAS	· · · · · · · · · · · · · · · · · · ·	Batch: 2418115
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
o-Xylene	ND	0.0250	1	05/03/24	05/03/24	
p,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2418115
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2418120
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/03/24	
Surrogate: n-Nonane		106 %	50-200	05/03/24	05/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2418123
Chloride	24.3	20.0	1	05/03/24	05/03/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/3/2024 4:48:11PM

S-8 - 4.5'

		E405022-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2418115
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
o-Xylene	ND	0.0250	1	05/03/24	05/03/24	
o,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
Surrogate: 4-Bromochlorobenzene-PID		93.6 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2418115
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2418120
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/03/24	
Surrogate: n-Nonane		111 %	50-200	05/03/24	05/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2418123
Chloride	53.9	20.0	1	05/03/24	05/03/24	



Matador Resources, LLC.	Project Name:	Merchant CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/3/2024 4:48:11PM

S-11 -5'

		E405022-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2418115
Benzene	ND	0.0250	1	05/03/24	05/03/24	
Ethylbenzene	ND	0.0250	1	05/03/24	05/03/24	
Toluene	ND	0.0250	1	05/03/24	05/03/24	
o-Xylene	ND	0.0250	1	05/03/24	05/03/24	
o,m-Xylene	ND	0.0500	1	05/03/24	05/03/24	
Total Xylenes	ND	0.0250	1	05/03/24	05/03/24	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2418115
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/03/24	05/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	70-130	05/03/24	05/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2418120
Diesel Range Organics (C10-C28)	ND	25.0	1	05/03/24	05/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/03/24	05/03/24	
Surrogate: n-Nonane		110 %	50-200	05/03/24	05/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2418123
Chloride	48.3	20.0	1	05/03/24	05/03/24	



Definitions and Notes

I	Matador Resources, LLC.	Project Name:	Merchant CTB	
I	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/03/24 16:48

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.

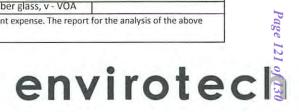


Received by OCD: 5/13/2024 8:19:48 AM

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Client: Matador Production Company Production Company Project Manager: Ashley Glovenge Address: 3122 Sandoral Parks Hwy City, State, Zip: Carlsbad NN, 88220 Phone: 579-388-055 Email: agiovenge@ensolum.com Miscellaneous: Sample Information Info Info Info Info Info Info Info Info		Clie	nt Inform	nation			Invoice Inform	ation				La	b Us	e Or	ıly				TA	T	State
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City, State, 20:5 Carlsbad MM, 88220 Finall: _agiovengo@ensolum.com Miscellaneous: Sample Information Samp	Project N	Manager: Asl	hley Giov	rengo		Cit	y, State, Zip: Carlsbad N	M, 88220									11				
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Sample Information Time Sample Matrix Institutions: Sample Information Time Sample Matrix Institutions: Sample Information Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com [Reid ampler], attent to the validity and authenticity of this sample. I am sware that tampering with or intentionally includeing the sample location, date or time of callection is considered fraud and may be ground for legal action. Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com [Reid ampler], attent to the validity and authenticity of this sample. I am sware that tampering with or intentionally includeing the sample location, date or time of callection is considered fraud and may be ground for legal action. [Reid ampler], attent to the validity and authenticity of this sample. I am sware that tampering with or intentionally includeing the sample location, date or time of callection is considered fraud and may be ground; for legal action. [Reid ampler], attent to the validity and authenticity of this sample. I am sware that tampering with or intentionally includeing the sample location, date or time of callection is considered fraud and may be ground; for legal action. [Reid ampler], attent to the validity and authenticity of this sample. I am sware that tampering with or intentionally includeing the sample location, date or time of callection is considered fraud and may be ground; for legal action. [Reid ampler], attent to the validity and authenticity of this sample. I am sware that tampering with or intentionally includeing the sample location, date or time of callection is considered fraud and may be ground; for legal action. [Reid ampler], attent to the validity and authenticity of this sample. I am sware that tampering with or intentionally includeing the sample location, date or time of callection is considered fraud and may be ground; for legal action. [Reid ampler], att																			l V		
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Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com (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. Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensolum.com (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. ampled by: (Signature) Date Shamples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an agtern packed but less than 6°C on time of collection ice. Shamples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an agtern packed but less than 6°C on time of collection ice. Shamples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an agtern packed but less than 6°C on time of collection ice. Shamples requiring thermal preservation must be received on ice. Shamples requiring thermal preservation must be received on ice. Samples requiring thermal preservation must be received on ice. Shamples requiring thermal preservation must be received on ice. Shamples requiring thermal preservation must be received on ice. Shamples requiring thermal preservation must be received on ice. Shamples requiring thermal preservation must be received on ice. Shamples requiring thermal preservation must be received on ice. Shamples requiring thermal preservation must be received on ice. Shamples requiring thermal preservation must be received on ice. Shamples requiring thermal preservation must be received on ice. Shamples requiring	11:13	5/1/2024	S	1			S-11 - 5'			4						х					
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Received by: (Signature) Date Time G / 2 / 4 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0			validity and	authenticit	of this samp	le. I am aware tha	t tampering with or intentionally r	mislabeling the	sample	e location	, date	or time	of co	llection	n is cor	sidere	ed frau	d and r	may be	grounds fo	r legal action.
Sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days. Received by: (Signature) Received by: (Signature) Date Time Solid, Sg - Sludge, A - Aqueous, O - Other Received by: (Signature) Date Time AVG Temp °C AVG Temp °C AVG Temp on the analysis of the above Received on ice: (The analysis of the above) Received on ice: (The analysis of the above)			e)	Date		Time	Received by: (Signature)	Dat	te		Time	-	-			Sample	es requi	ring the	etmal pr	eservation m	ust be received on ice the day they are
Received by: (Signature) Date Time S-2-14 Time Received by: (Signature) Date Time S-2-14 Date Time S-2-14 Date Time S-2-24 Date Time S-3-24 Date Time AVG Temp °C AVG Temp °C Date Total Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Received on ice: (Y) / N Received on ice: (Y) / N Total Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Received on ice: (Y) / N Total Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Received on ice: (Y) / N Total Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Received on ice: (Y) / N Total Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Received on ice: (Y) / N Total Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Received on ice: (Y) / N Total Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Received on ice: (Y) / N Total Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	1	e Toll	nn	9	12/24	1040	Wishelle Gan	onles 5	1-2.	24	11	140)			sample	ed or re	ceived p	oacked i	n ice at an av	g temp above 0 but less than 6 °C on
Received by: (Signature) Date Time S · 2 · 24 Date Time Received by: (Signature) Date Time AVG Temp °C AVG Temp °C AVG Temp °C Received by: (Signature) Received by: (Signature) AVG Temp °C Received by: (Signature)	Relinquish	d by (Signatur	e) 0	Date	2 211	Time	Received by: (Signature)	Dat	P		Time					subsen	went da	345			
Received by: (Signature) Date 1							Ck.09.	2	>. r	. 4	11	15	0			Rece	eived	on i	ce:	(Y)/ N	
AVG Temp °C	4. c	\mathcal{U} .		5	.2.24		hughen 12 Ha	1/ S	-3·	-24	1	500	0			T1				T2	<u>T3</u>
ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Relinquishe	ed by: (Signatur	e)	Date		Time	Received by: (Signature)	Dat	te		Time					AVG	Tem	np °C	4		
	Sample Mat	rix: S - Soil, Sd - So	olid, Sg - Slud	ige, A - Aque	ous, O - Othe	er		Co	ntair	ner Type	e: g -	glass,	p - p	oly/p						- VOA	
																	e clien	t expe	ense.	he report	for the analysis of the above





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Printed: 5/3/2024 11:04:25AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

Client:	Matador Resources, LLC.	Date Received:	05/03/24 0	5:00	Work Order ID:	E405022
Phone:	(972) 371-5200	Date Logged In:	05/02/24 1	5:46	Logged In By:	Angelina Pineda
Email:		Due Date:		7:00 (0 day TAT)	,	C
Chain of	Custody (COC)					
	e sample ID match the COC?		Yes			
	e number of samples per sampling site location mate	h the COC	Yes			
3. Were sa	mples dropped off by client or carrier?		Yes	Carrier: C	Courier	
4. Was the	COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes	<u>-</u>		
5. Were al	samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		Yes		Commen	ts/Resolution
Sample T	urn Around Time (TAT)				F G 1 05/G 11	() D
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		For Sample -05 (S-11 -	·
Sample C					unless sample -04 (S-1)	1 5) is >100 TPH
	ample cooler received?		Yes		and 600CL	
8. If yes, v	vas cooler received in good condition?		Yes			
9. Was the	sample(s) received intact, i.e., not broken?		Yes			
10. Were	sustody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
	sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling	received w/i 15	Yes			
13. If no v	isible ice, record the temperature. Actual sample t	emperature: 4°0	<u>C</u>			
Sample C						
	ueous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	nead space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	n-VOC samples collected in the correct containers?	una a alla ata d?	Yes			
	ppropriate volume/weight or number of sample containe	ers collected?	Yes			
Field Lab	<u>er </u>	matian				
	mple ID?	mation.	Yes			
	tte/Time Collected?		Yes			
Co	ellectors name?		Yes			
Sample P	reservation_					
	he COC or field labels indicate the samples were pre	served?	No			
	mple(s) correctly preserved?		NA			
24. Is lab	ilteration required and/or requested for dissolved me	etals?	No			
	se Sample Matrix					
	he sample have more than one phase, i.e., multiphase		No			
27. If yes,	does the COC specify which phase(s) is to be analyz	zed?	NA			
Subcontra	act Laboratory					
	mples required to get sent to a subcontract laboratory subcontract laboratory specified by the client and if s		No NA	Subcontract Lab	y NA	
	• • •					
28. Are sa	mples required to get sent to a subcontract laboratory subcontract laboratory specified by the client and if			Subcontract Lab	»: NA	
	re of client authorizing changes to the COC or sample disp				Date	- envirotech



APPENDIX F

Email Correspondence

<u>District I</u> 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

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 343389

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	343389
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites							
Incident ID (n#)	nAPP2330461091						
Incident Name	NAPP2330461091 MERCHANT CENTRAL TB @ 0						
Incident Type	Fire						
Incident Status	Remediation Plan Received						

Location of Release Source							
Please answer all the questions in this group.							
Site Name	MERCHANT CENTRAL TB						
Date Release Discovered	10/31/2023						
Surface Owner	Private						

Incident Details	
Please answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
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	Cause: Fire Tank (Any) Crude Oil Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.	
Produced Water Released (bbls) Details	Cause: Fire Tank (Any) Produced Water Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 343389

QUESTIONS (con	tinuea)
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Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	343389
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.		
The source of the release has been stopped True		
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	False	
If all the actions described above have not been undertaken, explain why	Unable to allow anyone to get near facility to work until everything has been cleared by safety.	

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.

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.

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

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

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

QUESTIONS, Page 3

Action 343389

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	343389
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)	
Any other fresh water well or spring	Between ½ and 1 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Between ½ and 1 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be	provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil co	ontamination 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 delineat	ted 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)	15500	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	5460	
GRO+DRO (EPA SW-846 Method 8015M)	5460	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B	3) 0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report include which includes the anticipated timelines for beginning and completing the remediatio	es completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, in.	
On what estimated date will the remediation commence	12/01/2024	
On what date will (or did) the final sampling or liner inspection occur	05/01/2024	
On what date will (or was) the remediation complete(d)	12/31/2024	
What is the estimated surface area (in square feet) that will be reclaime	ed 16862	
What is the estimated volume (in cubic yards) that will be reclaimed	2498	
What is the estimated surface area (in square feet) that will be remediate	ted 114831	
What is the estimated volume (in cubic yards) that will be remediated	3885	
These estimated dates and measurements are recognized to be the best guess or calc	ulation 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 a	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.

District I

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III** 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 4

Action 343389

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	343389
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: EHS Field Rep
Email: jason.touchet@matadorresources.com
Date: 05/13/2024

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

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

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

QUESTIONS, Page 5

Action 343389

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	343389
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 No submission

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

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

QUESTIONS, Page 6

Action 343389

QUESTIONS	(continued)
QUESTIONS!	(COHUHUCU)

Operator: MATADOR PRODUCTION COMPANY	OGRID: 228937 Action Number:				
One Lincoln Centre					
Dallas, TX 75240	343389				
	Action Type:				
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)				
QUESTIONS					
Sampling Event Information					
Last sampling notification (C-141N) recorded	{Unavailable.}				
Remediation Closure Request					
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.					
Requesting a remediation closure approval with this submission	No				

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

CONDITIONS

Action 343389

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	343389
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. Variance approved to collect floor samples every 400 square feet from the base of the excavation. Sidewall samples will be collected every 200 square feet. Remediation closure report due to the OCD by 8/11/2024.	5/13/2024