

February 22, 2024

New Mexico Energy and Natural Resources Department

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

Re: Closure Request

Margarita CTB

Incident Number nAPP2401671977

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* summarizing the response efforts and liner integrity inspection activities performed at the Margarita CTB (Site) in Unit L, Section 13, Township 21 South, Range 32 East, in Lea County, New Mexico (Figure 1). The purpose of the liner integrity inspection was to determine if the lined secondary containment was capable of containing the produced water release that occurred on January 16, 2024, and whether impacts to soil in the areas immediately surrounding the containment liner were present or absent. Based on field observations during the liner integrity inspection, Matador is submitting this *Closure Request* and requesting closure for Incident Number nAPP2401671977.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.48181°, -103.62756°) and is associated with oil and gas exploration and production operations on Private Land.

On January 16, 2024, a dump valve froze, which resulted in the release of 117 barrels (bbls) of crude oil inside the lined secondary containment. A vacuum truck successfully recovered all 117 bbls of crude oil. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141, can be referenced in the NMOCD Incident Portal on January 22, 2024. The release was assigned Incident Number nAPP2401671977. A 48-hour advance notice of liner inspection was provided via email to the NMOCD office on January 19, 2024. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery and upon inspection, the liner was found to have multiple pinholes varying in size across the entire tank battery containment.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. 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) depth to water well CP 01877 POD1 with a depth to water measurement of

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



105 feet below ground surface (bgs). CP 01877 POD1 is located 878 feet northwest of the Site and the most recent documented water level measurement was collected on September 29, 2021. All wells used for depth to groundwater determinations are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 1,335 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

LINER INTEGRITY INSPECTION AND DELINEATION SOIL SAMPLING ACTIVITIES

On January 26, 2024, Ensolum personnel competent in conducting liner inspections, arrived onsite to visually inspect the integrity of the containment liner. Ensolum personnel verified there was no visual evidence of a fluid breach outside of the containment walls; however, it was determined the liner floor was not intact. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.. Four lateral delineation sample points (SS01 through SS04) were collected on all sides of the lined containment at ground surface to verify the release remained inside the lined containment. Nine boreholes (BH01 through BH09) were collected at depths ranging from ground surface to 1-foot bgs beneath the containment liner containment to verify the vertical release extent.

Delineation soil samples were field screened for chloride utilizing Hach® chloride QuanTab® test strips and TPH utilizing PetroFLAG® soil reagents and results were logged on a lithologic soil sampling logs, which are included in Appendix C. The delineation sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Field screening results and observations from the boreholes were logged on lithologic soil sampling logs, which are included in Appendix C.

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

A 48-hour liner inspection notification was submitted via NMOCD Web Portal on January 19, 2024 (Appendix E).



LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all lateral delineation soil samples (SS01 through SS04) and all vertical delineation soil samples (BH01 through BH09) indicated all COC concentrations were in compliance with strictest Closure Criteria per NMOCD Table I and with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

Following the liner integrity inspection at the Site, it was determined the release was contained laterally and vertically by the containment liners and all released fluids were recovered during initial response activities. Lateral delineation soil samples (SS01 through SS04) collected at ground surface verified the release did not breach the containment wall. Vertical delineation soil samples (BH01 through BH09) collected beneath the lined containment verified the release did not impact the soil directly beneath the containment liner. Based on initial response efforts, and a reported depth to groundwater greater than 105 feet bgs, Matador believes actions taken to address the January 2024 have been protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2401671977.

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

Senior Managing Geologist

CC: Clinton Talley, Matador Production Company

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

Appendix C Lithologic Soil Sampling Logs

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

Appendix E Email Correspondence

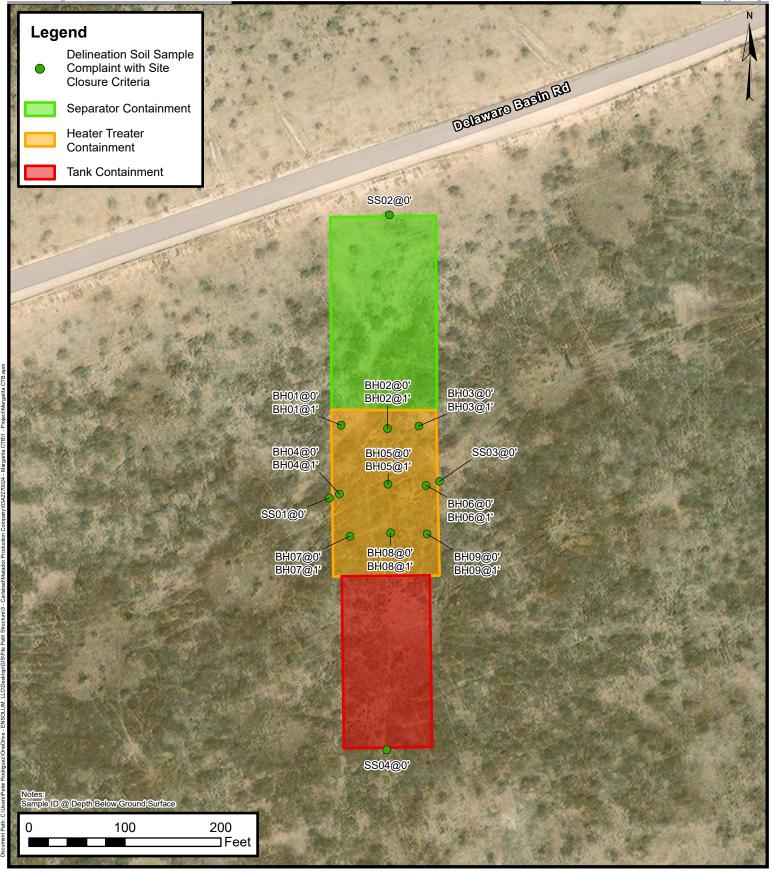


FIGURES



Incident Number: nAPP2401671977

Unit L, Section 13, T 21S, R 32E Lea County, New Mexico





Delineation Soil Sample Locations

Matador Production Company Margarita CTB Incident Number: nAPP2401671977 Unit L, Section 13, T 21S, R 32E

Eddy County, New Mexico

FIGURE 2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

Margarita CTB Matador Production Company Lea County, New Mexico

					County, New Me						
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	
				Delir	eation Soil San	nples					
SS01	1/26/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
SS02	1/26/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	68.6	
SS03	1/26/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	62.6	
SS04	1/26/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	24.0	
BH01	2/8/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	35.5	
BH01	2/8/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH02	2/8/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH02	2/8/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH03	2/8/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH03	2/8/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	21	
BH04	2/8/2024	0	< 0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	38.5	
BH04	2/8/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH05	2/8/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH05	2/8/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH06	2/8/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH06	2/8/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH07	2/8/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	71.9	
BH07	2/8/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH08	2/8/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH08	2/8/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH09	2/8/2024	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	
BH09	2/8/2024	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<25.0	<20.0	

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.

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

* 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



APPENDIX A

Referenced Well Records



NO	OSE POD NO. (V POD1 (TW-		.)		WELL TAG ID NO. n/a			OSE FILE NO	5). CP -1877			
OCATI	WELL OWNER Advanced En							PHONE (OPTIO 832.672.470	•			
AND WELL LOCATION	WELL OWNER 11490 Westh							CITY Houston				
AND	WELL		DE	GREES 32	MINUTES 28	SECON	M	ACCURACY REQUIRED: ONE TENTH OF A SECOND				
GENERAL	LOCATION (FROM GPS)		TITUDENGITUDE	103	17				SECOND			
1. GEN	DESCRIPTION SE NE NW S		NG WELL LOCATION TO T21S R32E	STREET ADDR	ESS AND COMMON	LANDMA	ARKS – PLS	S (SECTION, TO	wnshjip, range) wh	ERE AVA	AILABLE	
	LICENSE NO.		NAME OF LICENSED	DRILLER	· · · · · · · · · · · · · · · · · · ·			. •	NAME OF WELL DR	ILLING C	OMPANY	
	1249			1	ackie D. Atkins				Atkins Eng	ineering	g Associates, I	
	09/21/20		09/21/2021		MPLETED WELL (FI ary well materia			LE DEPTH (FT) 105	DEPTH WATER FIR	ST ENCO n/a	` ,	
N	COMPLETED W	ELL IS:	ARTESIAN	DRY HOL	E SHALLO	W (UNCO	NFINED)		STATIC WATER LEV	'EL IN CO n/a		LL (FT)
DIT	DRILLING FLU	D:	AIR	MUD MUD	MUD ADDITIVES – SPECIFY:							
DRILLING FLUID: AIR DRILLING METHOD: ROTARY DEPTH (feet bgl) FROM TO DIAM (inches)			ROTARY	П наммен	☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: I				Hollo	Hollow Stem Auger		
N. N.	DEPTH (feet bgl) BORE HOLE			CASING	MATERIAL AND	O/OR		ASING	CASING	CASI	ING WALL	SLOT
Ğ	FROM	TO	DIAM	(inabada	GRADE			NECTION			ICKNESS	SIZE
ASI			(inches)		(include each casing string, and note sections of screen)			TYPE ling diameter)	(inches)	((inches)	(inches)
8	0	105	±6.5		Boring- HSA			-				-
DRILLING &										ļ		
III										ļ		
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2.												
	-		<u> </u>									
					<u> </u>							
	DEPTH (fe	et bgl)	BORE HOLE	LI	ST ANNULAR SE	EAL MA	TERIAL A	AND	AMOUNT		метно	D OF
AL.	FROM	то	DIAM. (inches)	GRA	VEL PACK SIZE	-RANGE	BY INTE	ERVAL	(cubic feet)		PLACEN	
ERI												
MAT												
AR I												
Į.												
ANNULAR MATERIAL									,,		TOTAL TOTAL	2175
e.							···		OSE VII O	<u> </u>	TOXT built	40
									<u> </u>			
	OSE INTERN				1_	_	-		0 WELL RECORD	& LOG	(Version 06/3	0/17)
	NO.		77	205	13. 124			TRN	<u> </u>	<u>x</u>	1 2.55	1.05.2
LOC	ATION M	77 7 1	415.	クコレ、	16 114	r		WELL TAG I	DNO		PAGE	1 OF 2

	DEPTH (1	feet bgl)	THICKNESS (feet)	COLOR AND TYPE OF MATER INCLUDE WATER-BEARING CAVIT (attach supplemental sheets to t	TIES OR FRACTURE ZON	ES	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	19	19	Caliche, consolidated w	ith sand. White		Y /N	(87)
	19	29	10	Sand, Fine-grained, poor			Y /N	
	29	105	76	Sand, Fine-grained, poorly gra			Y √N	
						-	Y N	
					· • <u>·</u>		Y N	
1							Y N	· · · · · · · · · · · · · · · · · · ·
4. HYDROGEOLOGIC LOG OF WELL							Y N	
OF							Y N	-
90							Y N	
12							Y N	
9							Y N	
OH							Y N	
8							Y N	
		·					Y N	
4					-		Y N	
							Y N	
							Y N	
							Y N	
							Y N	
							Y N	
							Y N	
	METHOD U	ISED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:		1	L ESTIMATED	
	PUM	P 🔲 A	IR LIFT	BAILER OTHER – SPECIFY:		WELI	L YIELD (gpm):	0.00
ISION	WELL TES			CH A COPY OF DATA COLLECTED DU				
TEST; RIG SUPERVIS	MISCELLA	NEOUS INF	fe	mporary well materials removed and the toelow ground surface, then hydrated bgs adapted from WSP on-site geologist.				
TES	PRINT NAN	(E(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUI	PERVISION OF WELL CO	NSTRUC	TION OTHER TH	AN LICENSEE:
vi	Shane Eldri	dge, Carme	elo Trevino, Can	eron Pruitt				
SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE A CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGIN							TE ENGINEER
	Jack K	1tkins		Jackie D. Atkins			10-22-2021	
9		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME			DATE	
FO!	R OSE INTER	NAI IICE			11/D_20_11/	EII DEC	ORD & LOG (Ver	sion 06/30/2017)
	E NO.	<i>D-1</i>	377	POD NO.	TRN NO.	LLL KEU	1950	5,011 00/30/2017)
LO	CATION	non	21	5.32E.13.124	WELL TAG ID NO).		PAGE 2 OF 2



APPENDIX B

Photographic Log

ENSOLUM

Photographic Log

Matador Production Company
Margarita CTB
Incident Number nAPP2401671977





Photograph 1

Date: 1/26/24

Photograph 2

Date: 1/26/24

Description: Liner inspection

View: East

Description: Liner inspection
View: Northwest





Photograph 3

Date: 1/26/24

Photograph 4

Date: 12/11/2023

Description: Liner inspection

View: Northeast

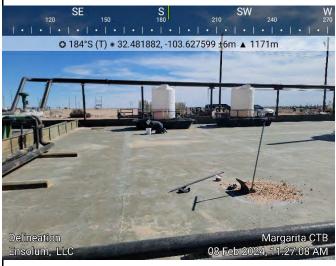
Description: Liner inspection View: Southeast

ENSOLUM

Photographic Log

Matador Production Company
Margarita CTB
Incident Number nAPP2401671977





Date: 1/26/24

Photograph 5 Date: 1/26/24 Photograph 6

Description: Liner delineation Description: Liner delineation

View: Northwest View: South





Photograph 7 Date: 1/26/24 Photograph 8 Date: 1/26/24

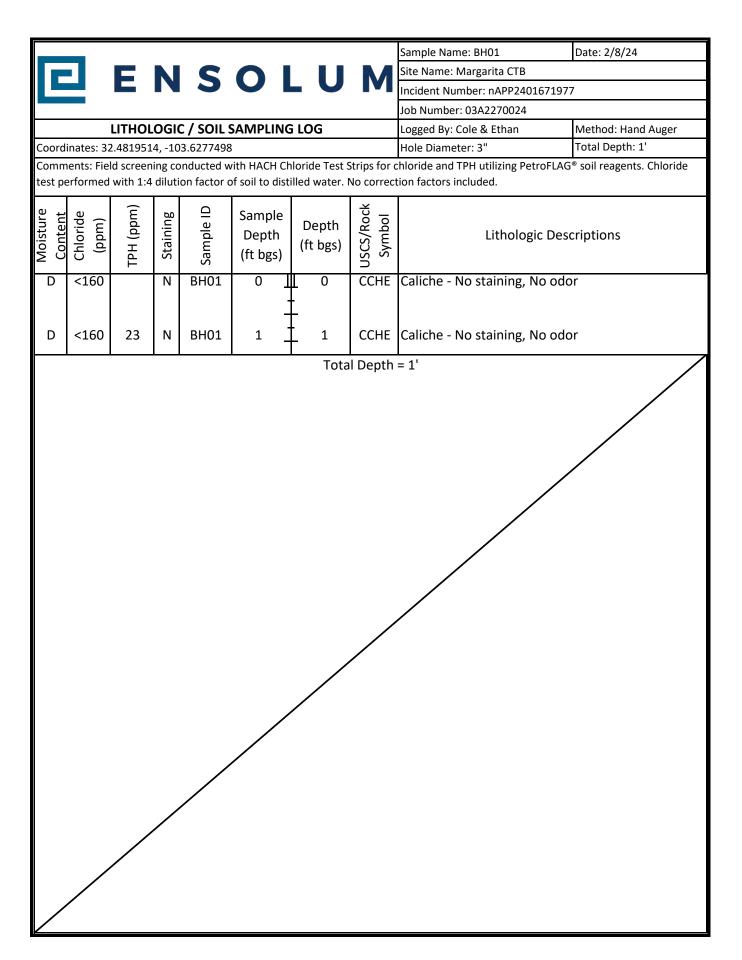
Description: Patching delineation holes Description: Patching delineation holes

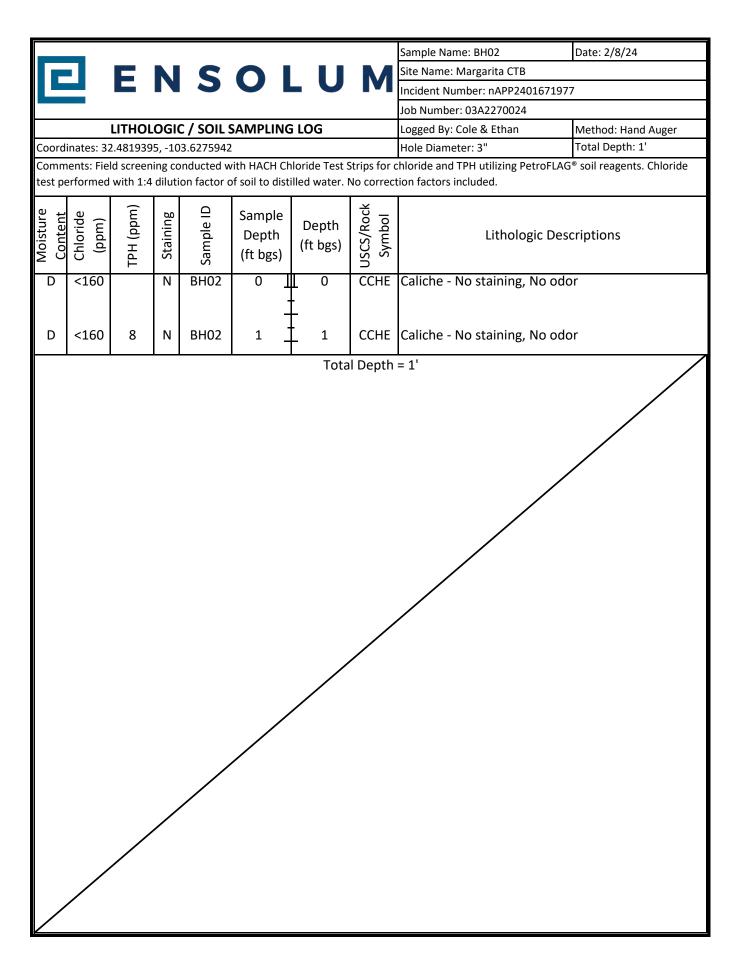
View: East View: East

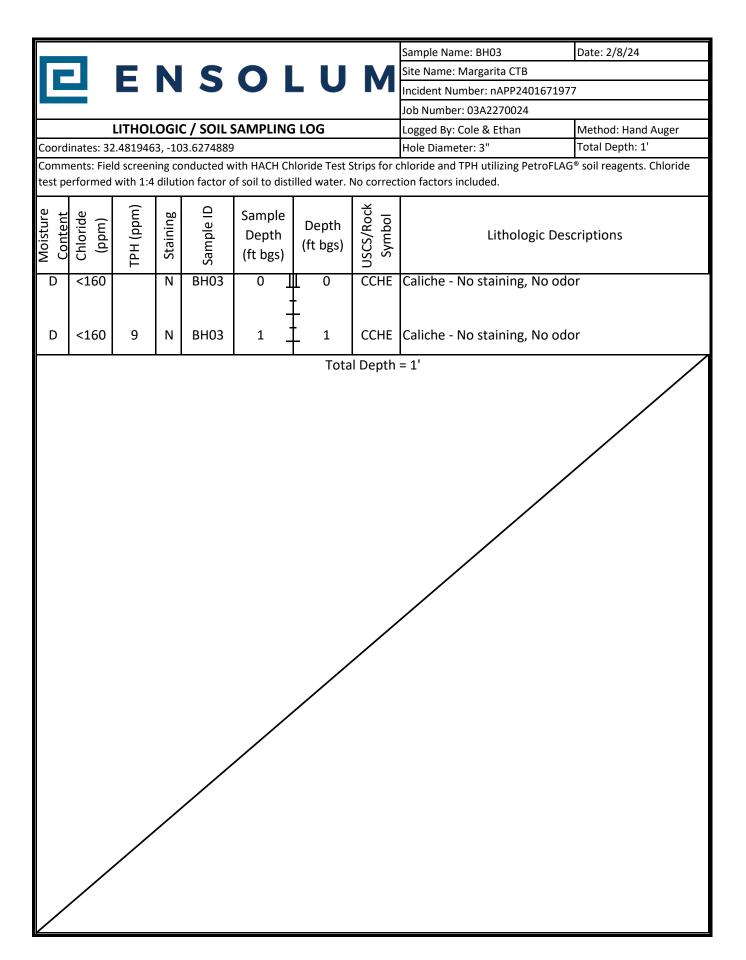


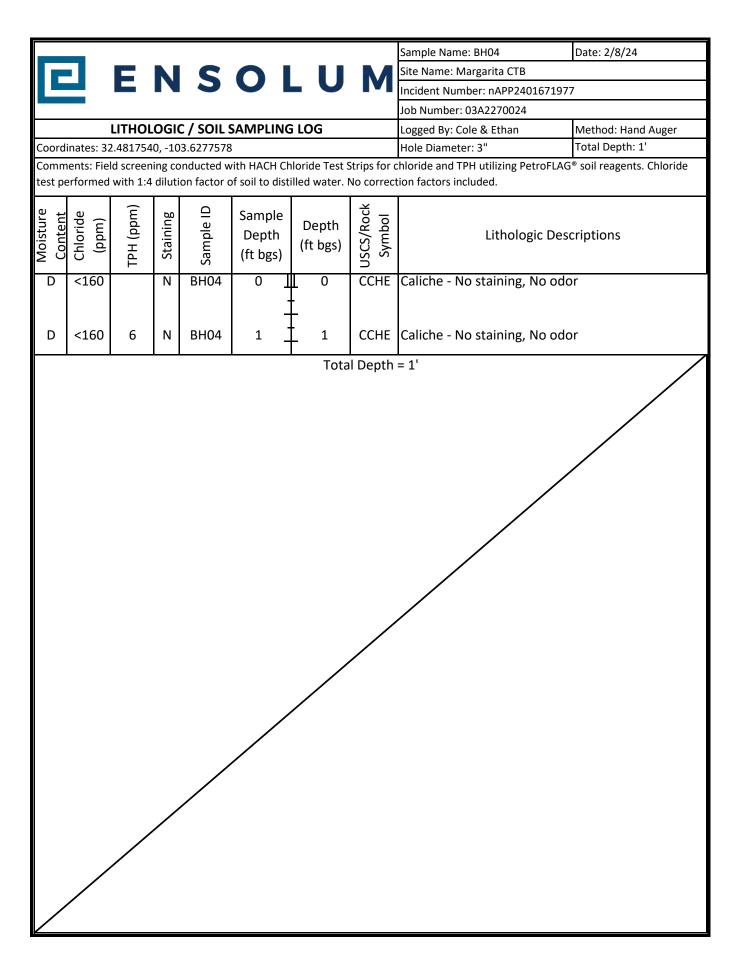
APPENDIX C

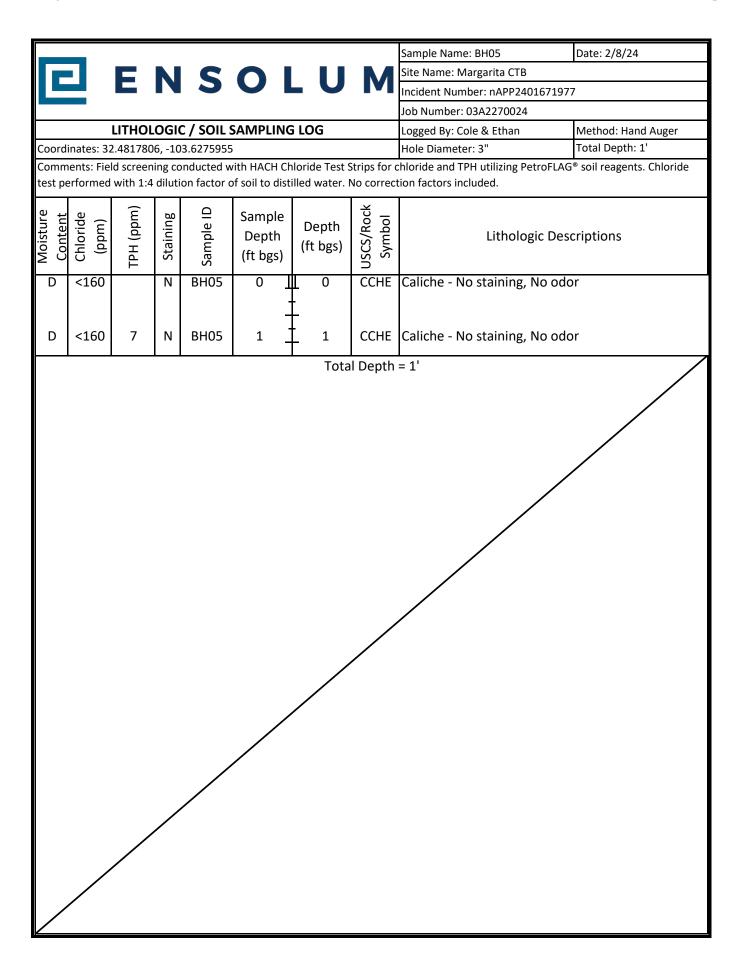
Lithologic Soil Sampling Logs

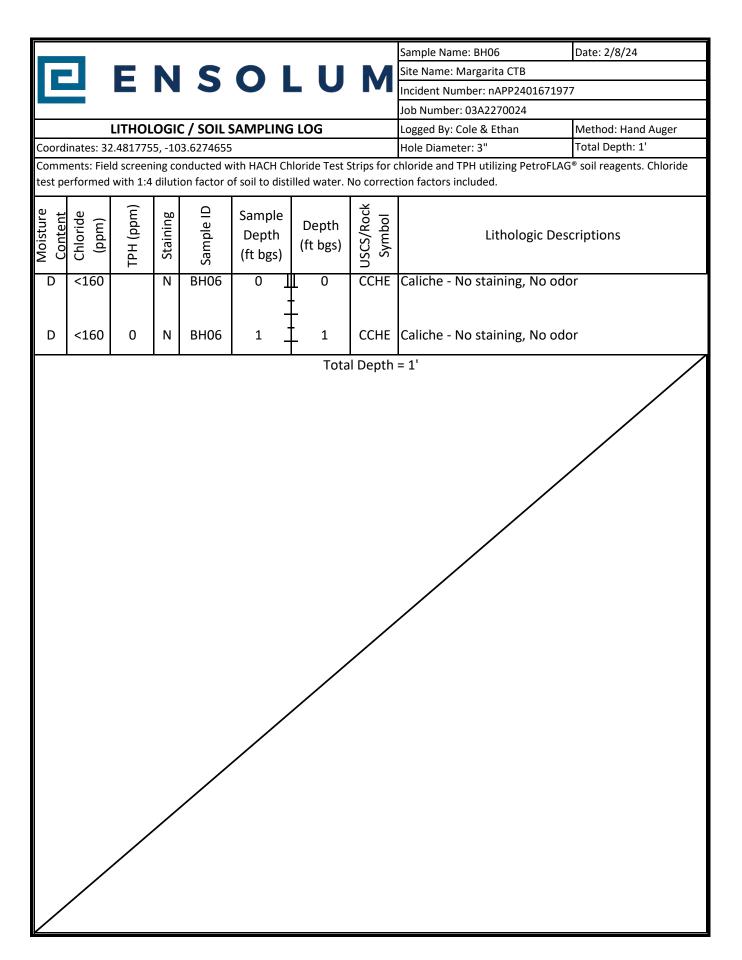


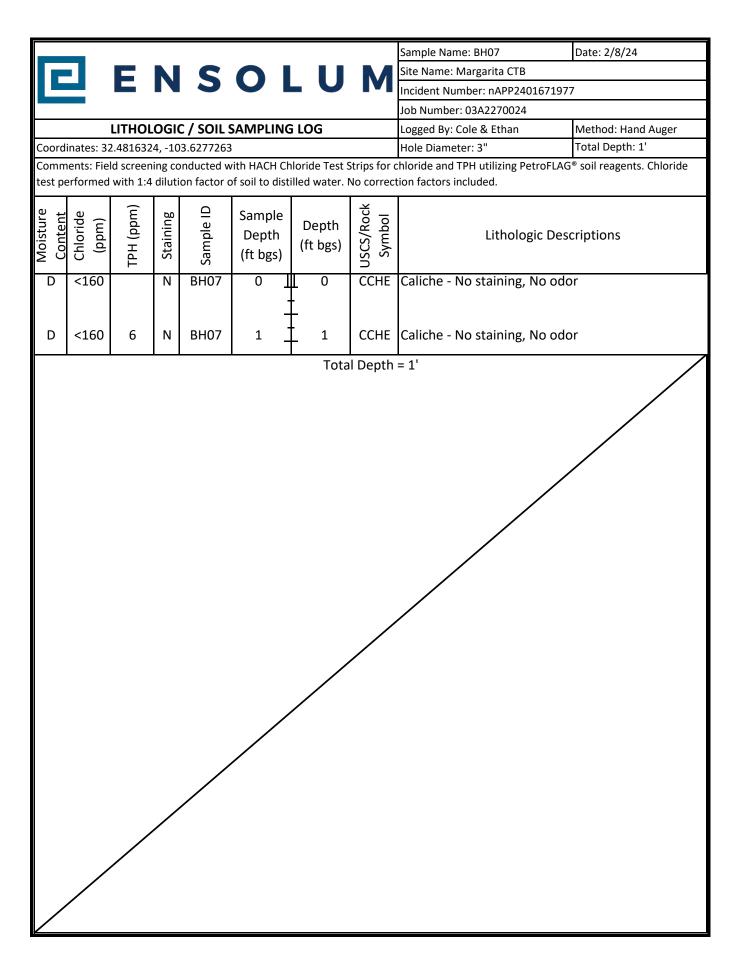


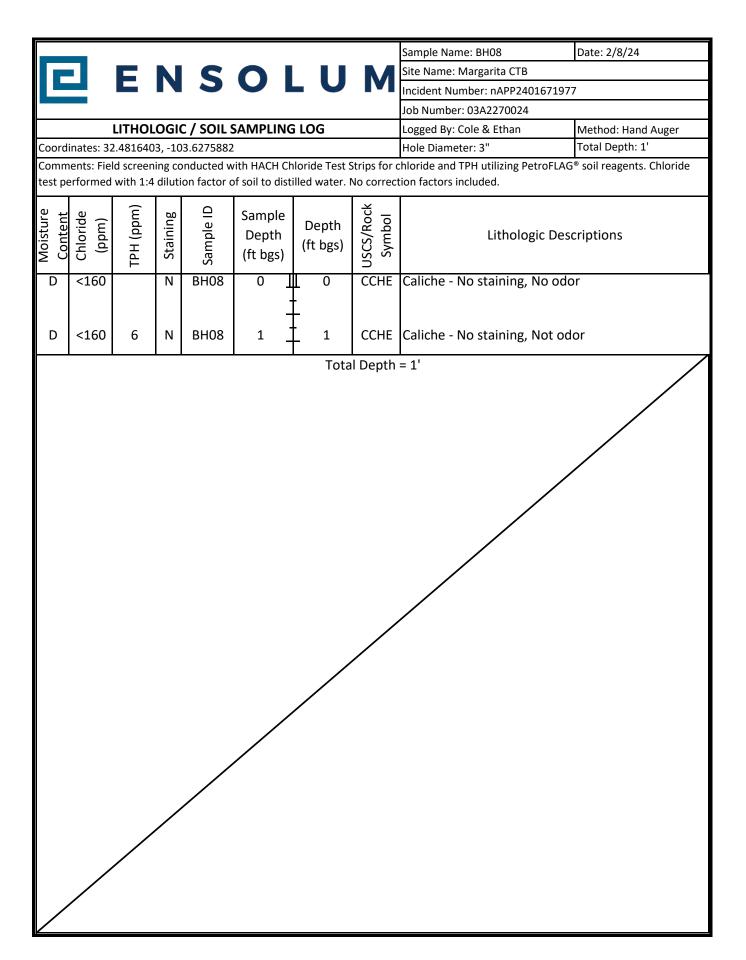


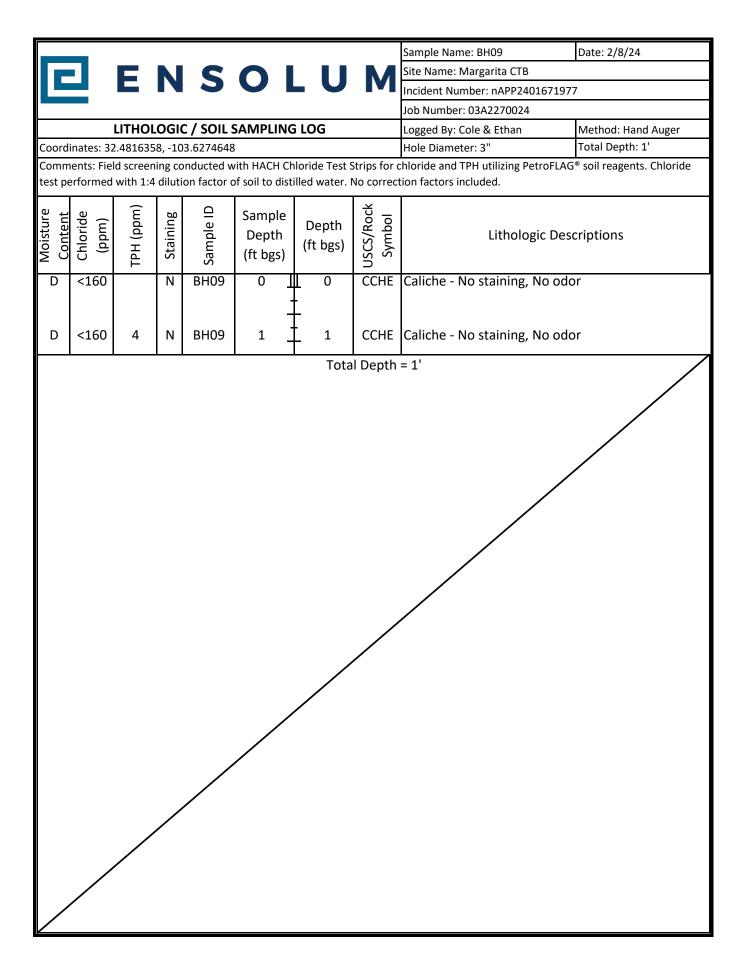














APPENDIX D

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: Margarita CTB

Work Order: E402010

Job Number: 23052-0001

Received: 2/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/7/24

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: 2/7/24

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

Project Name: Margarita CTB

Workorder: E402010

Date Received: 2/1/2024 6:09:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/1/2024 6:09:00PM, under the Project Name: Margarita CTB.

The analytical test results summarized in this report with the Project Name: Margarita 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

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Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

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:	Margarita CTB	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/07/24 16:31

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS01-0'	E402010-01A Soil	01/26/24	02/01/24	Glass Jar, 2 oz.
SS02-0'	E402010-02A Soil	01/26/24	02/01/24	Glass Jar, 2 oz.
SS03-0'	E402010-03A Soil	01/26/24	02/01/24	Glass Jar, 2 oz.
SS04-0'	F402010-04A Soil	01/26/24	02/01/24	Glass Jar. 2 oz.



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2024 4:31:55PM

SS01-0' E402010-01

		E402010-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: EG		Batch: 2405149
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
o,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg mg/kg		Analyst: EG			Batch: 2405149
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2406024
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		91.8 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2406019
Chloride	ND	20.0	1	02/05/24	02/06/24	



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2024 4:31:55PM

SS02-0'

E402010-02

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: EG		Batch: 2405149
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
o,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: EG		Batch: 2405149
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2406024
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		79.4 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: IY		Batch: 2406019
Chloride	68.6	20.0	1	02/05/24	02/06/24	



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2024 4:31:55PM

SS03-0'

E402010-03

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: EG		Batch: 2405149
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: 4-Bromochlorobenzene-PID		92.6 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: EG		Batch: 2405149
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2406024
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		89.5 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: IY		Batch: 2406019
Chloride	62.6	20.0	1	02/05/24	02/06/24	·



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2024 4:31:55PM

SS04-0'

E402010-04

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: EG		Batch: 2405149
Benzene	ND	0.0250	1	02/02/24	02/04/24	
Ethylbenzene	ND	0.0250	1	02/02/24	02/04/24	
Toluene	ND	0.0250	1	02/02/24	02/04/24	
o-Xylene	ND	0.0250	1	02/02/24	02/04/24	
p,m-Xylene	ND	0.0500	1	02/02/24	02/04/24	
Total Xylenes	ND	0.0250	1	02/02/24	02/04/24	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	Analyst: EG		Batch: 2405149
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/02/24	02/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	70-130	02/02/24	02/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	Analyst: KM		Batch: 2406024
Diesel Range Organics (C10-C28)	ND	25.0	1	02/05/24	02/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/05/24	02/06/24	
Surrogate: n-Nonane		90.4 %	50-200	02/05/24	02/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: IY		Batch: 2406019
Chloride	24.0	20.0	1	02/05/24	02/06/24	



QC Summary Data

Matador Resources, LLC. Margarita CTB Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23052-0001 Dallas TX, 75240 Project Manager: Ashley Giovengo 2/7/2024 4:31:55PM **Volatile Organics by EPA 8021B** Analyst: EG Source RPD Reporting Spike Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2405149-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.53 8.00 94.1 70-130 LCS (2405149-BS1) Prepared: 02/02/24 Analyzed: 02/04/24 4.96 5.00 99.2 70-130 0.0250 Benzene Ethylbenzene 4.94 0.0250 5.00 98.8 70-130 4.94 98.7 70-130 Toluene 0.0250 5.00 4.89 97.8 70-130 o-Xylene 0.0250 5.00 9.95 0.0500 10.0 99.5 70-130 p,m-Xylene 14.8 98.9 70-130 0.0250 15.0 Total Xylenes 8.00 70-130 94.5 Surrogate: 4-Bromochlorobenzene-PID 7.56

Matrix Spike (2405149-MS1)					E402003-0	03	Prepared: 02/02/24 Analyzed: 02/04/24		
Benzene	4.95	0.0250	5.00	ND	98.9	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.1	61-133			
Toluene	4.91	0.0250	5.00	ND	98.2	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.3	63-131			
p,m-Xylene	9.89	0.0500	10.0	ND	98.9	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

Matrix Spike Dup (2405149-MSD1)					Source: E402003-03			Prepared: 02/02/24 Analyzed: 02/04/24		
Benzene	4.83	0.0250	5.00	ND	96.7	54-133	2.30	20		
Ethylbenzene	4.80	0.0250	5.00	ND	96.0	61-133	2.14	20		
Toluene	4.81	0.0250	5.00	ND	96.2	61-130	2.10	20		
o-Xylene	4.76	0.0250	5.00	ND	95.1	63-131	2.26	20		
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131	2.20	20		
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131	2.22	20		
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.8	70-130				

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Matador Resources, LLC.Project Name:Margarita CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo2/7/2024 4:31:55PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			2/	/7/2024 4:31:55PM		
	Nor	Nonhalogenated Organics by EPA 8015D - GRO							Analyst: EG		
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes		
Blank (2405149-BLK1)							Prepared: 0	2/02/24 Ana	lyzed: 02/04/24		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.2	70-130					
LCS (2405149-BS2)							Prepared: 0	2/02/24 Ana	lyzed: 02/04/24		
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.0	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130					
Matrix Spike (2405149-MS2)				Source: E402003-03 Prepared: 02				2/02/24 Ana	lyzed: 02/04/24		
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.6	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.7	70-130					
Matrix Spike Dup (2405149-MSD2)				Source:	E402003-	03	Prepared: 0	2/02/24 Ana	lyzed: 02/04/24		
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.0	70-130	1.38	20			

8.00

7.79

97.4

70-130



QC Summary Data

Matador Resources, LLC.	Project Name:	Margarita CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2024 4:31:55PM

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	Nonhalogenated Organics by EPA 8015D - 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 (2406024-BLK1)							Prepared: 0	2/05/24 An	alyzed: 02/06/24	
Diesel Range Organics (C10-C28)	ND	25.0								
Oil Range Organics (C28-C36)	ND	50.0								
Surrogate: n-Nonane	55.8		50.0		112	50-200				
LCS (2406024-BS1)							Prepared: 0	2/05/24 An	alyzed: 02/06/24	
Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132				
Surrogate: n-Nonane	53.5		50.0		107	50-200				
LCS Dup (2406024-BSD1)							Prepared: 0	2/05/24 An	alyzed: 02/06/24	
Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132	0.0582	20		
Surrogate: n-Nonane	52.9		50.0		106	50-200				



QC Summary Data

Matador Resources, LLC.	Project Name:	Margarita CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	·
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2024 4:31:55PM

Anions by EPA 300.0/9056A

Anions by EPA 300.0/9056A								Analyst: IY			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2406019-BLK1)							Prepared: 0	2/05/24	Analyzed: 02/06/24		
Chloride	ND	20.0									
LCS (2406019-BS1)							Prepared: 0	2/05/24	Analyzed: 02/06/24		
Chloride	255	20.0	250		102	90-110					
LCS Dup (2406019-BSD1)							Prepared: 0	2/05/24	Analyzed: 02/06/24		
Chloride	255	20.0	250		102	90-110	0.300	20			

QC Summary Report Comment:

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/07/24 16:31

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.



roject ii	nformation						Chain of Cust	ouy									4	D	rag	e1
Client: N	Aatador Prod	duction C	ompany			Bill To				La	b Us	e Onl	У				TAT		EPA P	rogram
	Margarita CT				Atte	ention: Matador Produ	uction Company	Lat	b WO	1		Job N	lumb	er	1D	2D	3D	Standard	CWA	SDW
roject N	Manager: As	hley Giov	/engo		Add	dress: on file		E	40%	1610				·oal				Х		
	3122 Natio					, State, Zip:					1	analys	is and	d Metho	d					RCR
	e, Zip: Carls		88220		Pho	one: (337)319-8398			by by											
	575-988-005				Em	ail: clinton.talley@mat	adorresources.cor	d	ORC										State	
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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		BGDOC		GDOC		Remarks	5
10:13	1/26/2024	Soil	1			SS01 - 0'	1								х					
10:14	1/26/2024	Soil	1			SS02 - 0'	à								х					
10:17	1/26/2024	Soil	1			SS03 - 0'	3								х					
10:19	1/26/2024	Soil	1			SS04 - 0'	Ц						\forall		х					
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ddition	al Instruction	ns: Plea	ise CC: cl	burton@enso	um.com,	, agiovengo@ensolum.	com, chamilton@	enso	olum.c	om,										
				ty of this sample. I be grounds for le		hat tampering with or intention: Sampled by: Eth		le loc	cation,		- 1							ived on ice the day s than 6 °C on subs		pled or
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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:	02/01/24 18	8:09		Work Order ID:	E402010
Phone:	(972) 371-5200	Date Logged In:	02/01/24 09	9:39		Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:		7:00 (3 day TAT)		25 ,	
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	<u>'ourier</u>		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi	•	Yes			Comments	s/Resolution
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	sample cooler received?		Yes				
• /	was cooler received in good condition?		Yes				
9. Was the	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples ar minutes of sampling	re received w/i 15	Yes				
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C							
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers		Yes				
19. Is the a	appropriate volume/weight or number of sample contain	ners collected?	Yes				
	nel field sample labels filled out with the minimum info cample ID?	ormation:	Yes				
	ate/Time Collected?		No	l			
	ollectors name?		No				
Sample P	<u>reservation</u>						
21. Does	the COC or field labels indicate the samples were p	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved r	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	ise?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	imples required to get sent to a subcontract laborate	ory?	No				
	subcontract laboratory specified by the client and i	•	NA	Subcontract Lab	: NA		
	struction						

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

Date

envirotech Inc.

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: Margarita CTB

Work Order: E402095

Job Number: 23052-0001

Received: 2/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/16/24

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: 2/16/24

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

Project Name: Margarita CTB

Workorder: E402095

Date Received: 2/12/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/12/2024 8:00:00AM, under the Project Name: Margarita CTB.

The analytical test results summarized in this report with the Project Name: Margarita 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

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

ſ	Matador Resources, LLC.	Project Name:	Margarita CTB	Donoutod.
l	5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/16/24 14:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E402095-01A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH01-1'	E402095-02A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH02-0'	E402095-03A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH02-1'	E402095-04A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH03-0'	E402095-05A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH03-1'	E402095-06A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH04-0'	E402095-07A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH04-1'	E402095-08A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH05-0'	E402095-09A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH05-1'	E402095-10A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH06-0'	E402095-11A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH06-1'	E402095-12A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH07-0'	E402095-13A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH07-1'	E402095-14A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH08-0'	E402095-15A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH08-1'	E402095-16A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH09-0'	E402095-17A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.
BH09-1'	E402095-18A	Soil	02/08/24	02/12/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH01-0' E402095-01

		E402095-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		91.3 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/14/24	
Surrogate: n-Nonane		94.6 %	50-200	02/13/24	02/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2407011
Chloride	35.5	20.0	1	02/12/24	02/12/24	



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH01-1'

E402095-02						
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		91.0 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/14/24	
Surrogate: n-Nonane		94.9 %	50-200	02/13/24	02/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2407011
Chloride	ND	20.0	1	02/12/24	02/12/24	



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH02-0'

E402095-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		91.0 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.9 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/14/24	
Surrogate: n-Nonane		93.9 %	50-200	02/13/24	02/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2407011



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH02-1'

E402095-04						
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/14/24	
Surrogate: n-Nonane		95.6 %	50-200	02/13/24	02/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2407011
Chloride	ND	20.0	1	02/12/24	02/12/24	



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH03-0'

E402095-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
o,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/14/24	
Surrogate: n-Nonane		94.2 %	50-200	02/13/24	02/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2407011



Chloride

Sample Data

Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH03-1'

E402095-06						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		91.1 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.0 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/14/24	
Surrogate: n-Nonane		97.7 %	50-200	02/13/24	02/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2407011

20.0

21.0

02/12/24

02/12/24



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH04-0'

E402095-07						
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/15/24	
Surrogate: n-Nonane		101 %	50-200	02/13/24	02/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: DT		Batch: 2407011
Chloride	38.5	20.0	1	02/12/24	02/12/24	



Chloride

Sample Data

Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH04-1'

		E402095-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		91.1 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/14/24	
Surrogate: n-Nonane		94.5 %	50-200	02/13/24	02/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2407011

20.0

ND

02/12/24

02/12/24



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH05-0'

E402095-09

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		90.6 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.6 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	Analyst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/14/24	
Surrogate: n-Nonane		93.9 %	50-200	02/13/24	02/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: DT		Batch: 2407011
Milding by E171 500:0/7030/1						



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH05-1'

		E402095-10				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		91.2 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2407008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/14/24	
Surrogate: n-Nonane		94.4 %	50-200	02/13/24	02/14/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2407011
Chloride	ND	20.0	1	02/12/24	02/12/24	



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH06-0' E402095-11

		2.02076 11				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
o,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		93.6 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.9 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/15/24	
Surrogate: n-Nonane		91.6%	50-200	02/13/24	02/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2407011
Chloride	ND	20.0	1	02/12/24	02/12/24	



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH06-1'

E402095-12

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/15/24	
Surrogate: n-Nonane		89.9 %	50-200	02/13/24	02/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: DT		Batch: 2407011
				02/12/24	02/12/24	



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH07-0'

E402095-13	3
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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/15/24	
Surrogate: n-Nonane		95.9 %	50-200	02/13/24	02/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2407011
Amons by E171500:0/7030/1						



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH07-1'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		93.6 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/15/24	
Surrogate: n-Nonane		97.2 %	50-200	02/13/24	02/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2407011
Chloride	ND	20.0	1	02/12/24	02/12/24	·



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH08-0'

E402	005	15
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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.9 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/15/24	
Surrogate: n-Nonane		99.0 %	50-200	02/13/24	02/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: DT		Batch: 2407011
-	ND	20.0		02/12/24	02/13/24	<u> </u>



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH08-1'

E402095-16						
Reporting						
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/15/24	
Surrogate: n-Nonane		91.8 %	50-200	02/13/24	02/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2407011
Chloride	ND	20.0	1	02/12/24	02/13/24	



Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH09-0'

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pared Analyzed 12/24 02/14/24	Notes Batch: 2407008
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Matador Resources, LLC.	Project Name:	Margarita CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

BH09-1'

E402095-18

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2407008
Benzene	ND	0.0250	1	02/12/24	02/14/24	
Ethylbenzene	ND	0.0250	1	02/12/24	02/14/24	
Toluene	ND	0.0250	1	02/12/24	02/14/24	
o-Xylene	ND	0.0250	1	02/12/24	02/14/24	
p,m-Xylene	ND	0.0500	1	02/12/24	02/14/24	
Total Xylenes	ND	0.0250	1	02/12/24	02/14/24	
Surrogate: 4-Bromochlorobenzene-PID		93.7 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2407008
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/12/24	02/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %	70-130	02/12/24	02/14/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2407037
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/24	02/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/24	02/15/24	
Surrogate: n-Nonane		99.1 %	50-200	02/13/24	02/15/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2407011
Chloride	ND	20.0		02/12/24	02/13/24	



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	Margarita CTB 23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

Dallas TX, 75240		Project Manager:	As	shley Giovengo	,			2	2/16/2024 2:01:05PM
24140 171, 722 10									2.01.00111.
		Volatile O	rganics b	y EPA 8021	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 (2407008-BLK1)							Prepared: 02	2/12/24 An	alyzed: 02/14/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			
LCS (2407008-BS1)							Prepared: 02	2/12/24 An	alyzed: 02/14/24
Benzene	4.74	0.0250	5.00		94.7	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130			
Toluene	4.83	0.0250	5.00		96.6	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.83	0.0500	10.0		98.3	70-130			
Total Xylenes	14.7	0.0250	15.0		97.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			
Matrix Spike (2407008-MS1)				Source: E	E 402095 -1	13	Prepared: 02	2/12/24 An	alyzed: 02/14/24
Benzene	4.92	0.0250	5.00	ND	98.5	54-133			
Ethylbenzene	5.05	0.0250	5.00	ND	101	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			
Matrix Spike Dup (2407008-MSD1)				Source: E	E402095-1	13	Prepared: 02	2/12/24 An	alyzed: 02/14/24
Benzene	4.81	0.0250	5.00	ND	96.1	54-133	2.46	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.3	61-133	1.74	20	
Toluene	4.91	0.0250	5.00	ND	98.1	61-130	2.06	20	
o-Xylene	4.94	0.0250	5.00	ND	98.7	63-131	1.62	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	1.50	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131	1.54	20	
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Margarita CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	•
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

Dallas TX, 75240		Project Manager	r: As	shley Gioveng	go			2/10	5/2024 2:01:05PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO		A	nalyst: 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 (2407008-BLK1)							Prepared: 0	2/12/24 Analy	zed: 02/14/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			
LCS (2407008-BS2)							Prepared: 0	2/12/24 Analy	zed: 02/14/24
Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.8	70-130			
Matrix Spike (2407008-MS2)				Source:	E402095-	13	Prepared: 0	2/12/24 Analy	zed: 02/14/24
Gasoline Range Organics (C6-C10)	51.3	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.2	70-130			
Matrix Spike Dup (2407008-MSD2)				Source:	E402095-	13	Prepared: 0	2/12/24 Analy	zed: 02/14/24
Gasoline Range Organics (C6-C10)	51.4	20.0	50.0	ND	103	70-130	0.294	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			



QC Summary Data

Matador Resources, LLC.Project Name:Margarita CTBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo2/16/20242:01:05PM

	Nonha	logenated Or		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 (2407037-BLK1)							Prepared: 0	2/13/24 Anal	yzed: 02/14/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.7		50.0		97.5	50-200			
LCS (2407037-BS1)							Prepared: 0	2/13/24 Anal	yzed: 02/14/24
Diesel Range Organics (C10-C28)	242	25.0	250		96.7	38-132			
Surrogate: n-Nonane	45.3		50.0		90.6	50-200			
Matrix Spike (2407037-MS1)				Source:	E402095-	04	Prepared: 0	2/13/24 Anal	yzed: 02/14/24
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	49.5		50.0		99.0	50-200			
Matrix Spike Dup (2407037-MSD1)				Source:	E402095-	04	Prepared: 0	2/13/24 Anal	yzed: 02/14/24
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	0.276	20	
Surrogate: n-Nonane	52.5		50.0		105	50-200			



Chloride

Analyst: DT

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	Margarita CTB 23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/16/2024 2:01:05PM

80-120

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2407011-BLK1)							Prepared: 0	2/12/24 Anal	yzed: 02/12/24
Chloride	ND	20.0							
LCS (2407011-BS1)							Prepared: 0	2/12/24 Anal	yzed: 02/12/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2407011-MS1)				Source:	E402095-	02	Prepared: 0	2/12/24 Anal	yzed: 02/12/24
Chloride	270	20.0	250	ND	108	80-120			
Matrix Snike Dun (2407011-MSD1)				Source	E402095-	02	Prepared: 0	2/12/24 Anal	vzed: 02/12/24

250

20.0

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

l	Matador Resources, LLC.	Project Name:	Margarita CTB	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
	Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/16/24 14:01

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 (Company			Bill To				La	b Us	e Only			TAT					EPA Program		
	Maragarita				Attention: Mat	ador Production Co	mpany		WO#			Job N			1D	1D 2D 3		3D Standard		CWA	SDWA	
Project I	Manager: As	hley Giov	vengo		Address: on file			E	102	095	5	230	52	1000				Х				
Address	: 3122 Natio	nal Parks	Hwy		City, State, Zip:				-			Analysi	s an	d Meth	od						RCRA	
City, Sta	te, Zip: Carls	bad NM,	88220		Phone: (337)31	9-8398			by													
Phone:	575-988-005	5			Email: clinton.ta	alley@matadorreso	urces.com	-	ORO											State		
Email: a	giovengo@e	nsolum.	com					1	0/0	п			0		ΣN			NN	л со	UT AZ	TX	
Report o	lue by:								J/DR	802	3260	010	300	I			×					
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	верос		GDOC			Remarks		
11:10	2/8/2024	Soil	1		BH01 - 0'	ı								х								
11:16	2/8/2024	Soil	1		BH01 - 1'										х							
11:20	2/8/2024	Soil	1		BH02 - 0'										х							
11:26	2/8/2024	Soil	1		BH02 - 1'										х							
11:29	2/8/2024	Soil	1		BH03 - 0'		5								х							
11:34	2/8/2024	Soil	1	BH03 - 1'		6								х								
10:22	2/8/2024	Soil	1	BH04 - 0'		7								х								
10:29	2/8/2024	Soil	1		BH04 - 1'		8								х							
10:16	2/8/2024	Soil	1		BH05 - 0'		9								х							
10:23	2/8/2024	Soil	1		BH05 - 1'		ю								x							
Addition	al Instructio	ns: Plea	se CC: cl	ourton@ensol	um.com, agiovengo@	Pensolum.com, cha	milton@e	nsolu	ım.co	om, e	ehafi	@ens	olur	n.com,	iestr	ella@	enso	olum.co	m			
				ty of this sample. I ly be grounds for le	am aware that tampering wit gal action. <u>Sa</u> n	h or intentionally mislabell npled by: Cole Burton	ing the samp	le locat	ion,									ceived on ice less than 6 °C		they are samp equent days.	led or	
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					nless other arrangements																	



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Client: Matador Production Company			Bill To					ab Us	se Only	1		TAT				EPA P	EPA Program		
	Maragarita				Attention: Matador Produ	uction Company		ab WO#			Job Number				2D	3D	Standard	CWA	SDWA
	Manager: As				Address: on file		E	402	095)	230	52:	1000				х		
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City, Sta	te, Zip: Carls	bad NM	88220		Phone: (337)319-8398			by							1/				
Phone:	575-988-005	5			Email: clinton.talley@mata	adorresources.con		ORO	4 9								1	State	
mail: a	giovengo@e	nsolum.	com					30/0	1			0.		Σ×		2.5	NM CC	UT AZ	TX
Report o	lue by:							JO/DE	802	8260	0109	300	I			¥	×		
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Addition	nal Instructio	ns: Plea	ase CC: c	ourton@ensol	um.com, agiovengo@ensolum.c	com, chamilton@e	enso	lum.c	om,	ehaf	t@ens	olur	n.com,	iestre	ella@	Penso	olum.com		
				ty of this sample. I	am aware that tampering with or intentiona gal action. Sampled by: Col		le loca	ation,									ceived on ice the da ess than 6 °C on sub		led or
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Note: Sam	ples are discard	led 30 days	after resu	lts are reported u	nless other arrangements are made. H	lazardous samples will	be re	eturned	to cl	ient o	r dispos	ed of	f at the c	lient ex	kpens	e. The	e report for the	analysis of t	he above
					ratory with this COC. The liability of the													- 0.05	Die MEBO.



envirotech

envirotech Inc.

Printed: 2/12/2024 9:44:34AM

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. E402095 Date Received: 02/12/24 08:00 Work Order ID: Matador Resources, LLC. Client: Logged In By: Alexa Michaels 02/09/24 16:20 Date Logged In: (972) 371-5200 Phone: 02/16/24 17:00 (4 day TAT) Due Date: Email: agiovngo@ensolum.com Chain of Custody (COC) 1. Does the sample ID match the COC? Yes 2. Does the number of samples per sampling site location match the COC Yes 3. Were samples dropped off by client or carrier? Yes Carrier: Courier Yes 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? Yes Note: Analysis, such as pH which should be conducted in the field, Comments/Resolution i.e, 15 minute hold time, are not included in this disucssion. Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? Yes Sample Cooler Yes 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? Yes 9. Was the sample(s) received intact, i.e., not broken? Yes 10. Were custody/security seals present? No 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container 14. Are aqueous VOC samples present? No NA 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes Field Label 20. Were field sample labels filled out with the minimum information: Yes Sample ID? Date/Time Collected? Yes Collectors name? Yes Sample Preservation No 21. Does the COC or field labels indicate the samples were preserved? NA 22. Are sample(s) correctly preserved? 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., multiphase? No 27. If yes, does the COC specify which phase(s) is to be analyzed? NA Subcontract Laboratory No 28. Are samples required to get sent to a subcontract laboratory? 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA **Client Instruction**

Date

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



APPENDIX E

Email Correspondence

From: Ashley Giovengo
To: Chad Hamilton

Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 305594 Margarita CTB

Date: Friday, January 19, 2024 12:00:48 PM

Attachments: image001.png

image002.png image003.png image004.png



Ashley Giovengo

Senior Engineer 575-988-0055 Ensolum, LLC

From: Jason Touchet < jason.touchet@matadorresources.com>

Sent: Friday, January 19, 2024 12:00 PM

To: Ashley Giovengo <agiovengo@ensolum.com>

Cc: Clinton Talley <clinton.talley@matadorresources.com>

Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID:

305594 Margarita CTB

[**EXTERNAL EMAIL**]

Thanks,
Jason Touchet
EHS Field Techician

Matador Resources Company

Cell: 337-652-3463

Email: jason.touchet@matadorresources.com

From: OCDOnline@state.nm.us < OCDOnline@state.nm.us>

Sent: Friday, January 19, 2024 11:50 AM

To: Jason Touchet < jason.touchet@matadorresources.com >

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 305594

EXTERNAL EMAIL

To whom it may concern (c/o Jason Touchet for MATADOR PRODUCTION COMPANY),

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2401671977.

The liner inspection is expected to take place:

When: 01/26/2024 @ 09:00

Where: L-13-21S-32E 0 FNL 0 FEL (32.48181,-103.62756)

Additional Information: n/a

Additional Instructions: 32.48181° N, -103.62756° W

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.

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

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

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

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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 320920

QUESTIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	320920
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2401671977				
Incident Name	NAPP2401671977 MARGARITA CTB @ 0				
Incident Type	Oil Release				
Incident Status	Remediation Closure Report Received				

Location of Release Source						
Please answer all the questions in this group.						
Site Name	MARGARITA CTB					
Date Release Discovered	01/16/2024					
Surface Owner	Federal					

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

laterial(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: Freeze Dump Valve Crude Oil Released: 117 BBL Recovered: 117 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
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)	A cold front was in the area and caused the valve to freeze causing the failure and release.

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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 320920

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	ONS (continued)
Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
QUESTIONS	•
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com

District I
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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 **Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 320920

QUESTIONS (continued)

State of New Mexico

Operator:	OGRID:				
MATADOR PRODUCTION COMPANY	228937				
One Lincoln Centre	Action Number:				
Dallas, TX 75240	320920				
	Action Type:				
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)				

QUESTIONS

Site Characterization				
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.				
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)			
What method was used to determine the depth to ground water	NM OSE iWaters Database Search			
Did this release impact groundwater or surface water	No			
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:			
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)			
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)			
An occupied permanent residence, school, hospital, institution, or church	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	Greater than 5 (mi.)			
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)			
A wetland	Between 1000 (ft.) and ½ (mi.)			
A subsurface mine	Greater than 5 (mi.)			
An (non-karst) unstable area	Greater than 5 (mi.)			
Categorize the risk of this well / site being in a karst geology	Low			
A 100-year floodplain	Greater than 5 (mi.)			
Did the release impact areas not on an exploration, development, production, or storage site	No			

Remediation Plan			
Please answer all the questions that apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes		
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contaminatio	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	Yes		
Was this release entirely contained within a lined containment area	Yes		
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes complete which includes the anticipated timelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,		
On what estimated date will the remediation commence	01/26/2024		
On what date will (or did) the final sampling or liner inspection occur	01/26/2024		
On what date will (or was) the remediation complete(d)	01/26/2024		
What is the estimated surface area (in square feet) that will be remediated	0		
What is the estimated volume (in cubic yards) that will be remediated	0		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.			

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

District I

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

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7000 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 4

Action 320920

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	320920
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
Is (or was) there affected material present needing to be removed	Yes	
Is (or was) there a power wash of the lined containment area (to be) performed	No	
OTHER (Non-listed remedial process)	No	
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.		

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.

Name: Clint Talley
Title: Assistant Foreman

Email: clinton talley@mater

Email: clinton.talley@matadorresources.com

Date: 03/06/2024

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

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

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

QUESTIONS, Page 6

Action 320920

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Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	320920
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	305594
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	01/26/2024
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	5000

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	Yes	
What was the total surface area (in square feet) remediated	0	
What was the total volume (cubic yards) remediated	0	
Summarize any additional remediation activities not included by answers (above)	N/A	

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement

Name: Clint Talley Title: Assistant Foreman

Email: clinton.talley@matadorresources.com

Date: 03/06/2024

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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 320920

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	320920
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	App ID 320920 Liner Inspection approved.	4/17/2024