

January 24, 2024

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

Re: Deferral Request

Caviness 10 Federal #001

Incident Number nAPP2332850054

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request* to document excavation and soil sampling activities at the Caviness 10 Federal #001 (Site). The purpose of the Site assessment and soil sampling activities was to address impacts to soil following a release of produced water inside the earthen containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Deferral Request*, and requesting deferral of final remediation for Incident Number nAPP2332850054 until the Site is reconstructed and/or the well pad is plugged and abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit I, Section 10, Township 18 South, Range 33 East, in Lea County, New Mexico (32.759382°, -103.643465°) and is associated with oil and gas exploration and production operations on Private Land.

On November 24, 2023, an open top water tank overflowed, which resulted in the release of approximately 20.5 barrels (bbls) of produced water inside the earthen containment; approximately 12 bbls of fluid were recovered. Matador submitted a Release Notification Form C-141 (Form C-141) to the New Mexico Oil Conservation Division (NMOCD) on November 24, 2023, and subsequently the release was assigned Incident Number nAPP2332850054 (Appendix A).

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP 01417 POD 1 with a depth to water measurement at 54 feet below ground surface (bgs) and is located approximately 1,027 feet north of the Site. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix B.

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

Matador Production Company Deferral Request Caviness 10 Federal #001

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 2,404 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Potential 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): 1,00 mg/kg
- Total petroleum hydrocarbons (TPH): 2,500 mg/kg
- Chloride: 10,000 mg/kg

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

Beginning on November 28, 2023, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. During the initial evaluation it was found the release was contained within the earthen containment and there was no visual evidence of a breach in the containment wall. Ensolum personnel collected four lateral delineation soil samples (SS01 through SS04) on all sides of the earthen containment to assess the lateral extent of the release at ground surface. On December 6, 2023, Ensolum personnel returned to the Site to collect discrete soil samples from boreholes BH01 and BH02 to determine the vertical extent of the release inside the earthen containment. The boreholes were advanced with a hand auger to depths of 0.5 feet and 2 feet bgs, respectively. Delineation soil samples were field screened for chloride utilizing Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Lithologic Sample Logs are included as Appendix C. Photographic documentation was collected, and a photographic log is included in Appendix D.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. 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.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results from delineation soil samples (SS01 through SS04) were in compliance with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results from boreholes BH01 and BH02 indicated TPH-GRO and TPH-DRO, total TPH, and chloride concentrations exceeded the Site Closure Criteria at ground surface. Vertical delineation to the strictest Closure Criteria per NMOCD Table I was achieved at 2-feet bgs in borehole BH02. Based on laboratory analytical results, impacted soil was identified at ground surface, indicating remediation inside the earthen containment would be



Matador Production Company Deferral Request Caviness 10 Federal #001

required. The laboratory analytical reports and chain-of-custody documentation are included in Appendix E and laboratory analytical results are summarized in Table 1.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

On December 29, 2023, excavation of impacted soil was completed to the maximum extent practicable (MEP) utilizing hand tools and field personnel. To direct excavation activities, soil was field screened for TPH utilizing a PetroFLAG® Soil Analyzer System and chloride utilizing the same methods as previously described above. The excavation area ranged in depth from 0.5 feet to 2.5 feet bgs around the production tanks and equipment and photographic documentation of excavation activities is included in Appendix D.

Following the excavation, 5-point composite soil samples were collected every 200 square feet from the sidewalls and every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Excavation soil samples (FS01 through FS07) were collected from the floor of the excavation at depths ranging from 0.5 feet to 2.5 feet bgs. Sidewall soil samples (SW01 and SW02) were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2.5 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and confirmation soil sample locations are depicted on Figure 3.

The earthen containment was excavated to the MEP; however, due to the presence of production equipment and process pipping, certain areas were not excavated to the extent as to meet Site Closure Criteria. The presence of the existing equipment meant the excavation of these areas would constitute a major Site deconstruction in order to complete. Impacted soil removed from the earthen containment was completed in such a manner as to not affect the safety of personnel onsite or the production of equipment inside the containment.

The final excavation extent measured approximately 1,319 square feet. A total of approximately 67 cubic yards of impacted and waste-containing soil was removed during the excavation. The soil was transported and properly disposed of at the R360 Disposal Facility. The excavation extent and excavation soil sample locations are presented in Figure 3. NMOCD Correspondence is included in Appendix F.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation floor samples (FS01 through FS07) and sidewall soil samples (SW01 and SW02) indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 laboratory analytical reports are included as Appendix D.

Three areas of waste containing soil remain within the release area due to the presence of production equipment currently in use directly above impacted soil. The first area of request deferral is located beneath a produced water storage tank measuring approximately 205 square feet. The second area is beneath a water transfer pump measuring approximately 7 square feet and the final is beneath a separator measuring approximately 13 square feet. The estimated area of remaining waste-containing soil measures approximately 225 square feet and assuming an average depth of 2 feet based on the analytical results for delineation borehole BH02@2', a total of approximately 16.7 cubic yards of impacted soil remains in place. The deferral areas are depicted on Figure 4.

The release remained on the well pad that is currently in operation for oil and gas production purposes. As such, the release area is not expected to be reclaimed until the oil and gas well is plugged and



Matador Production Company Deferral Request Caviness 10 Federal #001

abandoned (P&A'd) and the well pad is reclaimed. The Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the well pad per 19.2.100.67 NMAC.

DEFERRAL REQUEST

Matador is requesting deferral of final remediation due to the presence of active production equipment and process piping preventing full excavation of impacted soil. Accessible impacted soil was excavated to the MEP and residual impacted soil is limited to areas beneath production equipment and surface piping, where remediation would require a major facility deconstruction. Matador was able to excavate approximately 67 cubic yards of accessible impacted around the produced water tank, separator, and transfer pump. The impacted soil remaining in place is laterally defined by delineation soil samples (SS01 through SS04) at ground surface, floor and sidewall confirmation samples at depths ranging from the ground surface to 2.5 feet bgs within the earthen containment, and vertically defined by borehole sample BH02@2'.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Any gross impacts were removed during the initial cleanup.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Matador requests deferral of final remediation for Incident Number nAPP2332850054 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely, **Ensolum, LLC**

Chad Hamilton Staff Scientist Daniel R. Moir, PG Senior Managing Geologist

cc: Clint Talley, Matador Production Company

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Confirmation Soil Sample Locations

Figure 4 Area of Requested Deferral Table 1 Delineation Soil Samples

Appendix A Form C-141

Appendix B Referenced Well Records
Appendix C Lithologic / Soil Sampling Logs

Appendix D Photographic Log

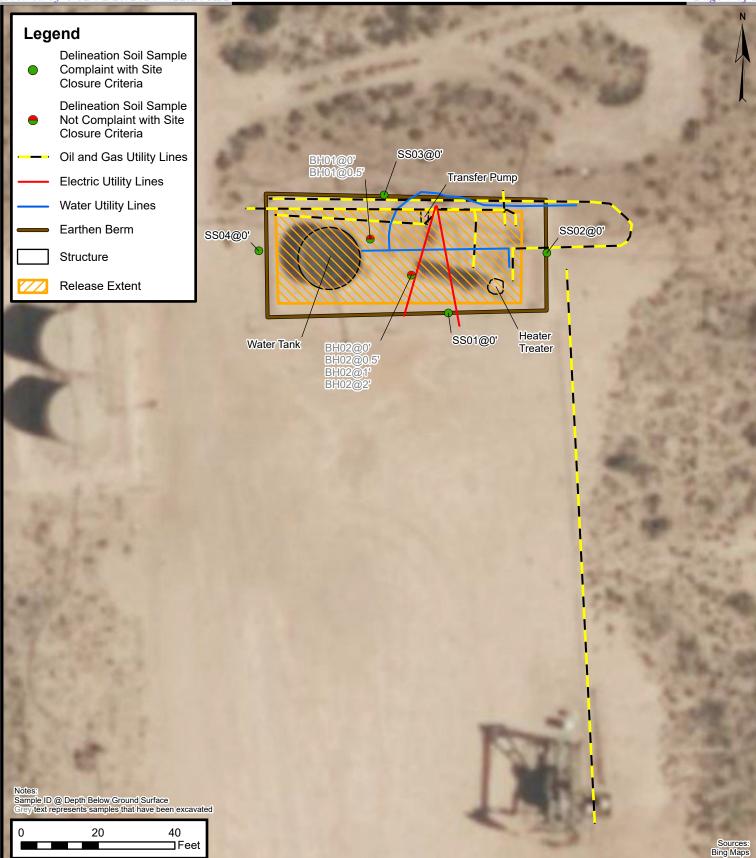
Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix F NMOCD Correspondence





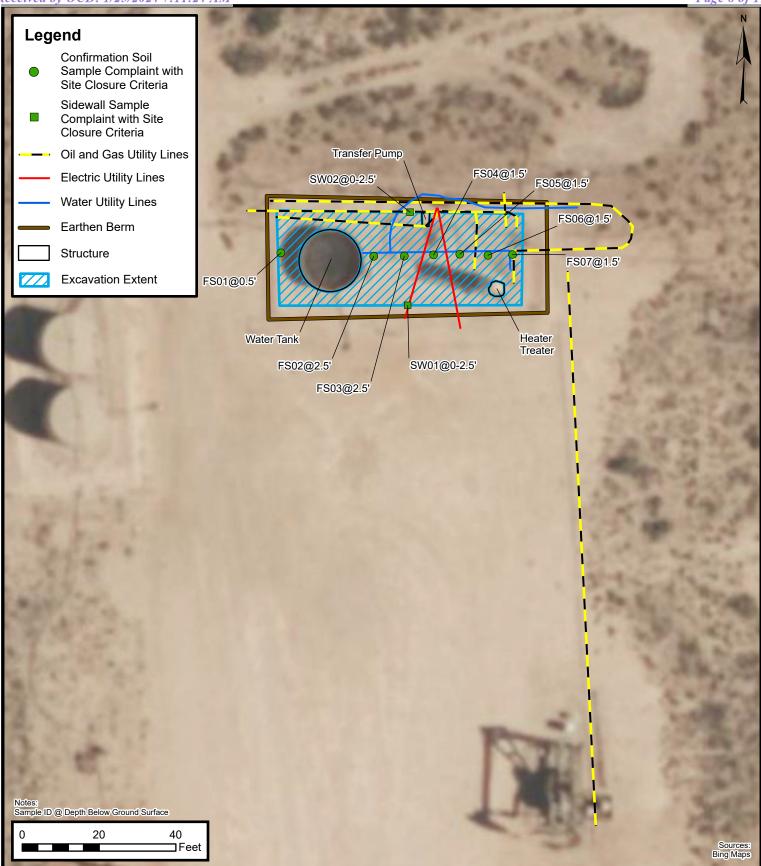
FIGURES





Delineation Soil Sample Locations

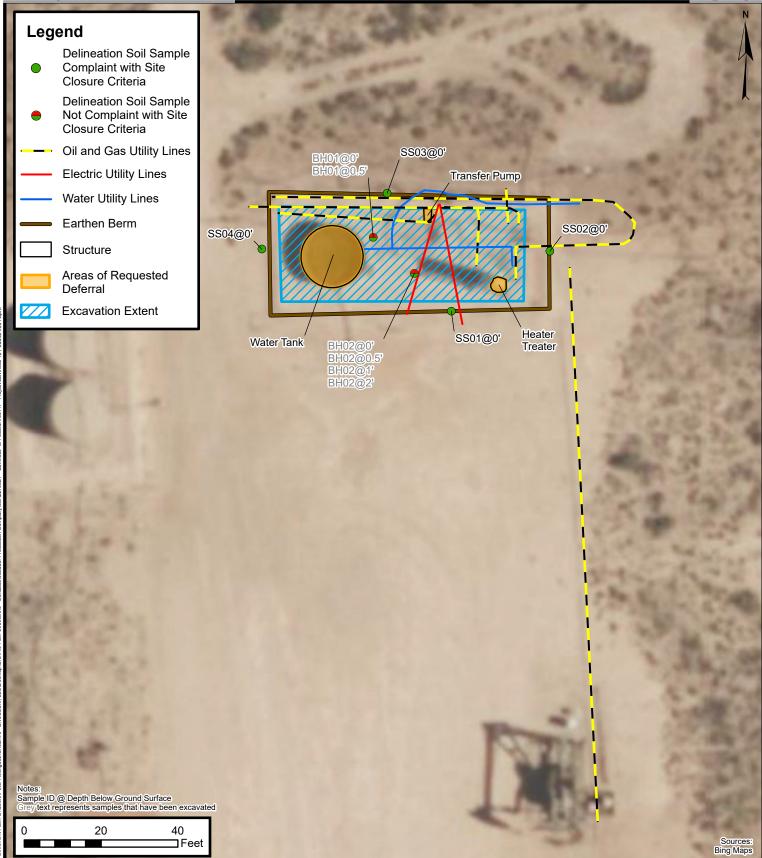
Matador Production Company Caviness 10 Federal #001 Incident Number: nAPP2332850054 Unit I, Section 10, T 18S, R 33E Lea County, New Mexico FIGURE 2





Confirmation Soil Sample Locations

Matador Production Company Caviness 10 Federal #001 Incident Number: nAPP2332850054 Unit I, Section 10, T 18S, R 33E Lea County, New Mexico FIGURE 3





Area of Requested Deferral

Matador Production Company Caviness 10 Federal #001 Incident Number: nAPP2332850054 Unit I, Section 10, T 18S, R 33E Lea County, New Mexico FIGURE

4



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Caviness 10 Federal #001 **Matador Production Company** Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
	Closure Criteria ((NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Delir	neation Soil San	nples				
SS01	11/28/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	58.6
SS02	11/28/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	521
SS03	11/28/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	11/28/2023	0	<0.0250	<0.0250	<20.0	30.8	<50.0	30.8	30.8	52.3
BH01	12/6/2023	0	< 0.0250	0.0553	<20.0	1,080	1,490	1,080	2,570	14,800
BH01	12/6/2023	0.5	< 0.0250	< 0.0250	<20.0	909	1,000	909	1,909	458
BH02	12/6/2023	0	< 0.0250	< 0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	25,100
BH02	12/6/2023	0.5	< 0.0250	< 0.0250	<20.0	883	1,140	883	2,023	2,630
BH02	12/6/2023	1	< 0.0250	< 0.0250	390	<25.0	<50.0	390	390	857
BH02	12/6/2023	2	< 0.0250	< 0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	472
				Excava	tion Floor Soil S	Samples				
FS01	12/29/2023	0.5	<0.0250	<0.0500	<20.0	55.3	76.0	55.3	131	4,540
FS02	1/5/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	4,250
FS03	1/5/2024	2.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<25.0	1,680
FS04	1/2/2024	1.5	<0.0250	<0.0500	<20.0	249	173	249	428.0	1,620
FS05	1/5/2024	1.5	<0.0250	<0.0500	<20.0	58.7	<50.0	58.7	58.7	506
FS06	1/5/2024	1.5	<0.0250	<0.0500	<20.0	115	172	115	287	234
FS07	1/5/2024	1.5	<0.0250	<0.0500	<20.0	108	142.0	108	250	180
Sidewall Soil Samples										
SW01	1/5/2024	0-2.5	<0.0250	<0.0500	<20.0	60.2	<50.0	60.2	60.2	1,140
SW02	1/5/2024	0-2.5	<0.0250	<0.0500	<20.0	84.3	116	84.3	200	376

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

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.

[&]quot;<": Laboratory Analytical result is less than reporting limit

GRO: Gasoline Range Organics



APPENDIX A

Form C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2332850054
District RP	
Facility ID	
Application ID	

Release Notification

			Resp	onsible Party	y		
Responsible Party Matador Production Company OC				OGRID 22	228937		
Contact Nam	Contact Name Clint Talley				Contact Telephone (337) 319-8398		
Contact ema	il clinton.tal	ley@matadorresou	rces.com	Incident #	(assigned by OCD) nAPP		
Contact mail Texas 75240		5400 Lyndon B Jo	hnson Fwy, Dalla	as,			
			Location	of Release So	ource		
Latitude 32.75	9382			Longitude -	103.643465		
			(NAD 83 in dec	cimal degrees to 5 decin			
Site Name Ca	viness 10 F	ederal #001		Site Type (Dil Well		
Date Release	Discovered	11/24/2023		API# (if app	licable) 30-025-29849		
Unit Letter	C4:	Tarrentia	D	Comm			
I	Section 10	Township 18S	Range 33E	Coun Lea	<u>·</u>		
Surface Owne		Federal Tr	Nature and	d Volume of I			
Crude Oi		l(s) Released (Select al Volume Release		calculations or specific	justification for the volumes provided below) Volume Recovered (bbls)		
Produced	Water	Volume Release	d (bbls) 20.5 bbls		Volume Recovered (bbls) 12 bbls		
		Is the concentrate produced water 2	ion of dissolved c >10,000 mg/l?	hloride in the	⊠ Yes □ No		
Condensate Volume Released (bbls)					Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)			d (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide unit			Released (provide	e units)	Volume/Weight Recovered (provide units)		
Cause of Release: A produced water tank overflowed inside earthen containment. A vac truck recovered 12 bbls of produced water.							
В	$BBL \ Estimate = \left(Saturated \ Soil \ Volume \ (ft^3) \ / 4.21 \left(\frac{ft^3}{bbl} \ equivalent\right)\right) x \ Estimated \ Soil \ Porosity \ (\%) \\ + Recovered \ Fluids \ (bbl)$						

 $((540 \text{ sq. ft x } 0.166 \text{ ft}) / 4.21)) \times 0.40 + 12 \text{ bbls} = 20.51 \text{ bbls}$

Received by OCD: 1/25/2024 7:11:24 AM State of New Mexico
Page 2 Oil Conservation Division

Dance	1 1	-4	7	16
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Incident ID	nAPP2332850054
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respondence Volume exceeded 25 bbls.	sible party consider this a major release?			
19.15.29.7(A) NMAC?					
☐ Yes ⊠ No					
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?			
	Initial Re	esponse			
The responsible p	party must undertake the following actions immediately	vunless they could create a safety hazard that would result in injury			
☐ The source of the rele	ease has been stopped.				
☐ The impacted area ha	s been secured to protect human health and	the environment.			
Released materials ha	we been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.			
<u> </u>	ecoverable materials have been removed and				
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:			
has begun, please attach	a narrative of actions to date. If remedial e	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.			
		pest of my knowledge and understand that pursuant to OCD rules and			
public health or the environr	nent. The acceptance of a C-141 report by the O	ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have			
failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Clint Talle		Title: EHS Supervisor			
Signature: Clint 7	alley	Date: 11/24/2023			
email: Clinton.talley@ma		Telephone: <u>337-319-8398</u>			
OCD Only					
Received by:		Date:			

Page 15 of 116

Incident ID	nAPP2332850054
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.				
What is the shallowest depth to groundwater beneath the area affected by the release?	54 (ft bgs)			
Did this release impact groundwater or surface water?	Yes No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine?				
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
	Yes No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				

Characterization Report Checklist: Each of the following items must be included in the report.			
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.			
Field data			
Data table of soil contaminant concentration data			
Depth to water determination			
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release			
Boring or excavation logs			
Photographs including date and GIS information			
☐ Topographic/Aerial maps			
☐ Laboratory data including chain of custody			

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 1/25/2024 7:11:24 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page 16 of 116

Incident ID	nAPP2332850054
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Clint Talley	Title: EHS Supervisor			
Signature: Clint Tallsy	Date: <u>01/16/2024</u>			
email: Clinton.talley@matadorresources.com	Telephone: <u>337-319-8398</u>			
OCD Only				
Received by:	Date:			

OCD: 1/25/2024 7:11:24 AM Page 17 of 116

Incident ID	nAPP2332850054
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.								
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 								
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.							
☐ Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility							
Extents of contamination must be fully delineated.								
☐ Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.							
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.								
Printed Name: Clint Talley	Title: EHS Supervisor							
Signature: Clint Talley	Date: <u>01/16/2024</u>							
email: Clinton.talley@matadorresources.com	Telephone: <u>337-319-8398</u>							
OCD Only								
OCD Only								
Received by:	Date:							
☐ Approved ☐ Approved with Attached Conditions of	Approval							
Signature:	Date:							



APPENDIX B

Referenced Wells



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

Y X

CP 01417 POD1

11 18S 33E

627036 3625738

Driller License: 1632

Driller Name: CALEB CURRY

5.00

12/01/2014

Drill Finish Date:

Driller Company:

12/01/2014

Plug Date:

Drill Start Date: Log File Date:

12/15/2014

PCW Rcv Date:

Depth Well:

Source:

Shallow

Pump Type: Casing Size:

Pipe Discharge Size:

120 feet

Estimated Yield: Depth Water:

6 GPM 54 feet

Water Bearing Stratifications:

Top Bottom Description

35

90 Sandstone/Gravel/Conglomerate

HOPPER PUMP & DRILLING, INC.

Casing Perforations:

Bottom Top

> 60 120

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

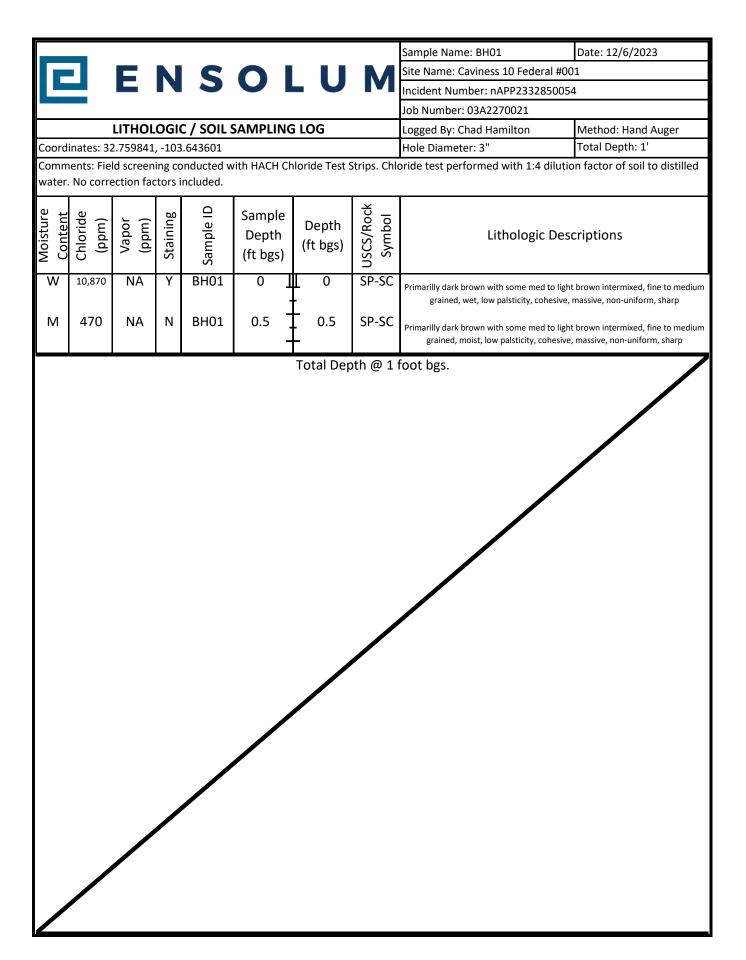
11/28/23 6:37 PM

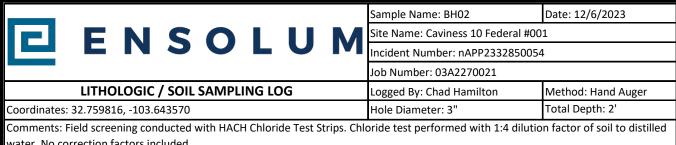
POINT OF DIVERSION SUMMARY



APPENDIX C

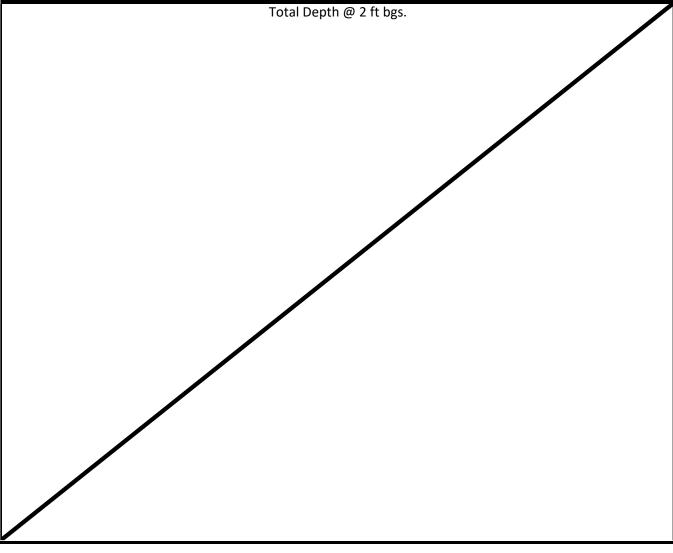
Lithologic Soil Sampling Logs





water. No correction factors included.

Moisture	Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
	W	25,738	NA	Υ	BH02	0	0		Primarilly med to light brown with some dark brown intermixed, fine to medium grained, wet, low palsticity, cohesive, massive, non-uniform, sharp
	М	2,464	NA	N	BH02	0.5	0.5		
	М	862	NA	N	BH02	1 -	1	I > \/\/ - > (Medium to light brown, fine to veryfine grain size, moist, non-plastic, noncohesive, massive, trace, uniform, Alluvial, sharp
	М	470	NA	Ν	BH02	2	2		





APPENDIX D

Photographic Log



Photographic Log

Matador Production Company Caviness 10 Federal #001 nAPP2332850054





Date: 11/28/2023 Photograph 1

Description: Lease Sign

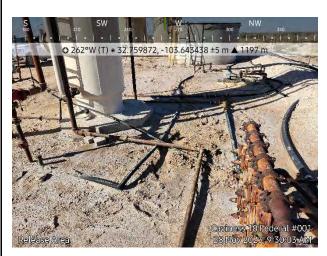
View: North

Photograph 2

Description: Release Area

View: East





Photograph 3

Date: 11/28/2023

Photograph 4

Date: 11/28/2023

Date: 11/28/2023

Description: Release Area

View: West

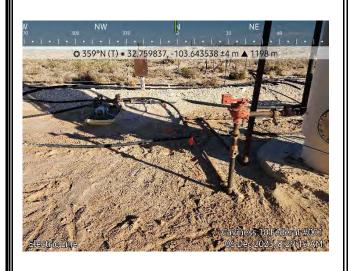
Description: Release Area

View: Southeast



Photographic Log

Matador Production Company Caviness 10 Federal #001 nAPP2332850054





Date: 12/06/2023

Photograph 5 Date: 12/06/2023 Photograph 6

Description: Utility Lines Description: Vertical Delineation

View: North View: Northwest





Photograph 7 Date: 12/06/2023 Photograph 8 Date: 12/06/2023

Description: Vertical Delineation Description: Surface Lines

View: East View: West



Photographic Log

Matador Production Company Caviness 10 Federal #001 nAPP2332850054





Photograph 9 Date: 01/02/2024

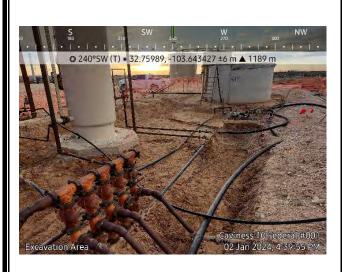
Description: Excavation Progress

View: North

Photograph 10 Date: 01/02/2024

Description: Excavation Progress

View: Northwest





Photograph 11 Date: 01/02/2024

Description: Excavation Progress

View: Southwest

Photograph 12 Date: 01/03/2024

Description: Excavation Progress

View: West

ENSOLUM

Photographic Log

Matador Production Company Caviness 10 Federal #001 nAPP2332850054





Photograph 13 Date: 01/05/2024

Description: Confirmation Sampling

View: East

Photograph 14 Date: 01/05/2024

Description: Confirmation Sampling

View: North





Photograph 15 Date: 01/05/2024

Description: Confirmation Sampling

View: Southeast

Photograph 16 Date: 01/05/2024

Description: Confirmation Sampling

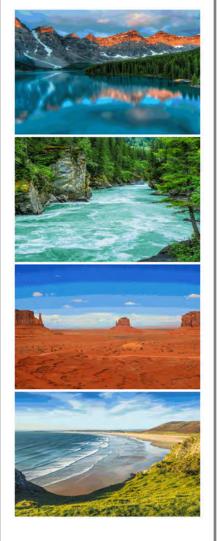
View: Southeast



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Caviness 10 Federal #001

Work Order: E311235

Job Number: 23052-0001

Received: 11/30/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 12/14/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/14/23

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

Project Name: Caviness 10 Federal #001

Workorder: E311235

Date Received: 11/30/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/30/2023 7:30:00AM, under the Project Name: Caviness 10 Federal #001.

The analytical test results summarized in this report with the Project Name: Caviness 10 Federal #001 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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Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	6
SS01 -0'	6
SS02 -0'	7
SS03 -0'	8
SS04 -0'	9
QC Summary Data	10
QC - Volatile Organics by EPA 8021B	10
QC - Nonhalogenated Organics by EPA 8015D - GRO	11
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	12
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/23 13:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 -0'	E311235-01A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SS02 -0'	E311235-02A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SS03 -0'	E311235-03A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.
SS04 -0'	E311235-04A	Soil	11/28/23	11/30/23	Glass Jar, 2 oz.



Case	7 . T	4.	
1 200	1 1 2 1	CT1T	-

Project Name: Caviness 10 Federal #001

Workorder:E311235

Date Received: 11/30/2023

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

Sample Name Laboratory ID

SS04-0' E311235 EPA 8015D- DRO/ORO

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

Analysis

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

Respectfully,

Walter Hinchman

Sample Data

Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/2023 1:58:11PM

SS01 -0' E311235-01

		2011200 01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2348091
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
Surrogate: 4-Bromochlorobenzene-PID		92.6 %	70-130	11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2348091
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.9 %	70-130	11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: JL		Batch: 2349028
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
Surrogate: n-Nonane		89.1 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2349022
Chloride	58.6	20.0	1	12/04/23	12/05/23	



Sample Data

Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/2023 1:58:11PM

SS02 -0'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2348091
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
Surrogate: 4-Bromochlorobenzene-PID		91.3 %	70-130	11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: RKS		Batch: 2348091
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %	70-130	11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2349028
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
Surrogate: n-Nonane		89.4 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2349022
	521		2	12/04/23	12/05/23	



Sample Data

Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/2023 1:58:11PM

SS03 -0'

E311235-03

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2348091
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
Surrogate: 4-Bromochlorobenzene-PID		92.2 %	70-130	11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2348091
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.6 %	70-130	11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2349028
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
Surrogate: n-Nonane		88.2 %	50-200	12/05/23	12/05/23	
	Л		Λn	alyst: BA		Batch: 2349022
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Alle	aryst. B/1		Baten. 2347022



Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/2023 1:58:11PM

SS04 -0'

E311235-04

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2348091
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	11/30/23	12/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2350017
Diesel Range Organics (C10-C28)	30.8	25.0	1	12/05/23	12/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/12/23	
Surrogate: n-Nonane		85.7 %	50-200	12/05/23	12/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2349022
Chloride	52.3	20.0	1	12/04/23	12/05/23	



Caviness 10 Federal #001 Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23052-0001 Dallas TX, 75240 Project Manager: Ashley Giovengo 12/14/2023 1:58:11PM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2348091-BLK1) Prepared: 11/30/23 Analyzed: 12/01/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.56 8.00 94.5 70-130 LCS (2348091-BS1) Prepared: 11/30/23 Analyzed: 12/01/23 5.24 105 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.12 0.0250 5.00 102 70-130 5.19 0.0250 5.00 104 70-130 Toluene 103 o-Xylene 5.14 0.0250 5.00 70-130 10.4 10.0 104 70-130 0.0500 p.m-Xvlene 104 70-130 15.5 15.0 Total Xylenes 0.0250 8.00 94.8 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.58 Matrix Spike (2348091-MS1) Source: E311234-08 Prepared: 11/30/23 Analyzed: 12/01/23 5.17 0.0250 5.00 ND 54-133 Benzene 61-133 Ethylbenzene 5.06 0.0250 5.00 ND 101 Toluene 5.14 0.0250 5.00 ND 103 61-130 5.07 ND 101 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.3 0.0500 10.0 ND 103 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.46 8.00 Matrix Spike Dup (2348091-MSD1) Source: E311234-08 Prepared: 11/30/23 Analyzed: 12/01/23 5.00 0.0250 5.00 ND 54-133 3.34 61-133 2.46 4.94 0.0250 5.00 ND 98.8 20 Ethylbenzene 61-130 Toluene 4 97 0.0250 5.00 ND 99.5 3 19 20 4.93 5.00 ND 98.7 63-131 2.67 20 o-Xylene 0.0250 2.79 10.0 10.0 ND 100 63-131 20 p,m-Xylene 0.0500 Total Xylenes 15.0 0.0250 15.0 ND 99.8 63-131 2.75 20

8.00

93.8

70-130



Surrogate: 4-Bromochlorobenzene-PID

7.50

Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	Reported:
5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Number: Project Manager:	23052-0001 Ashley Giovengo	12/14/2023 1:58:11PM

Dallas TX, 75240		Project Manage		shley Gioveng	go			12/	14/2023 1:58:11PM
	Non	halogenated	Organics	by EPA 80	15D - G	RO		I	Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2348091-BLK1)							Prepared:	11/30/23 An	alyzed: 12/01/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			
LCS (2348091-BS2)							Prepared:	11/30/23 An	alyzed: 12/01/23
Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		79.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			
Matrix Spike (2348091-MS2)				Sourc	e: E31123	4-08	Prepared:	11/30/23 An	alyzed: 12/01/23
Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.3	70-130			
Matrix Spike Dup (2348091-MSD2)				Sourc	e: E31123	4-08	Prepared:	11/30/23 An	alyzed: 12/01/23
Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.7	70-130	2.08	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130			



Matador Resources, LLC.Project Name:Caviness 10 Federal #001Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo12/14/20231:58:11PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			1	.2/14/2023 1:58:11PN
	Nonha	logenated Or	ganics by	EPA 80151	O - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2349028-BLK1)							Prepared:	12/05/23	Analyzed: 12/05/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			
LCS (2349028-BS1)							Prepared:	12/05/23	Analyzed: 12/05/23
Diesel Range Organics (C10-C28)	219	25.0	250		87.7	38-132			
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			
Matrix Spike (2349028-MS1)				Sourc	e: E31123	1-05	Prepared:	12/05/23	Analyzed: 12/05/23
Diesel Range Organics (C10-C28)	225	25.0	250	ND	89.9	38-132			
Surrogate: n-Nonane	47.8		50.0		95.7	50-200			
Matrix Spike Dup (2349028-MSD1)				Sourc	e: E31123	1-05	Prepared:	12/05/23	Analyzed: 12/05/23
Diesel Range Organics (C10-C28)	215	25.0	250	ND	86.1	38-132	4.35	20	
Surrogate: n-Nonane	47.2		50.0		94.5	50-200			

Matador Resources, LLC.Project Name:Caviness 10 Federal #001Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo12/14/20231:58:11PM

Dallas TX, 75240		Project Manager	r: As	shley Gioveng	30			12	2/14/2023 1:58:11PN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2350017-BLK1)							Prepared:	12/11/23 A	nalyzed: 12/12/23
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	47.0		50.0		94.0	50-200			
CS (2350017-BS1)							Prepared:	12/11/23 A	nalyzed: 12/12/23
riesel Range Organics (C10-C28)	231	25.0	250		92.6	38-132			
urrogate: n-Nonane	47.9		50.0		95.9	50-200			
Matrix Spike (2350017-MS1)				Source	e: E31205	9-04	Prepared:	12/11/23 A	nalyzed: 12/12/23
riesel Range Organics (C10-C28)	230	25.0	250	ND	91.8	38-132			
urrogate: n-Nonane	48.9		50.0		97.8	50-200			
Matrix Spike Dup (2350017-MSD1)				Sourc	e: E31205	9-04	Prepared:	12/11/23 A	nalyzed: 12/12/23
tiesel Range Organics (C10-C28)	232	25.0	250	ND	92.9	38-132	1.16	20	
urrogate: n-Nonane	47.9		50.0		95.8	50-200			

Matrix Spike Dup (2349022-MSD1)

Chloride

321

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number Project Manager	:	Caviness 10 Fee 23052-0001 Ashley Giovens				12	Reported: 2/14/2023 1:58:11PM
Bullus 111, 752 10				300.0/9056					Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
Blank (2349022-BLK1)	mg/kg	mg/kg	mg/kg	mg/kg	%	%	% Prepared:	% 12/04/23 A	Notes nalyzed: 12/05/23
Chloride	ND	20.0					1 Tepareu.	12/04/23 A	naryzed. 12/03/23
LCS (2349022-BS1)							Prepared:	12/04/23 A	nalyzed: 12/05/23
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2349022-MS1)				Sourc	e: E31123	5-01	Prepared:	12/04/23 A	nalyzed: 12/05/23
Chloride	316	20.0	250	58.6	103	80-120			

250

20.0

Source: E311235-01

58.6

105

80-120

1.73

QC Summary Report Comment:

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



Prepared: 12/04/23 Analyzed: 12/05/23

20

Definitions and Notes

Matador Resources, LLC.Project Name:Caviness 10 Federal #0015400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo12/14/23 13:58

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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Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chadhmilton@ensolum.com, ehaft@ensolum.com	Client: N	Matador Pro	duction C	ompany.				Bill To		Т		Lä	ab Us	se On	y		Ţ		T	AT		EPA P	rogram
Additional Instructions: Please CC: cburton@ensolum.com, aglovengo@ensolum.com, chadhmilton@ensolum.com, ehaft@ensolum.com [city, State, Zip: Analysis and Method Instructions Instru									ompany	Lab	WO#		_					2D	3D	Sta	andard	CWA	SDWA
Phone: (337)319-8398 Email: clinton.talley@matadorresources.com Figure Fig	-									LE.	3117	13:	<u> </u>		-				<u> </u>	<u> </u>	<u> X</u>		
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1/28/23 S SSO 2 - O' Z SSO 2 - O' X SSO 2 -		-					Email:	clinton.talley@matadorres	ources.con	4	/08						_				NA CO		TV I
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date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Charlet Hamilton			-		-			mpering with or intentionally mislabe		e locat	tion,					-							oled or
Relinquished by: (Signatura) Date Time Received by: (Signatura) Date Time Lab Use Only Received on ice: (Y) / N						Time	H	Widelle Lund		23		36		Rece	ived	on ice:				ily			
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Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other				dge, A - Aqu	eous, O - Othe	er							p - p	oly/pl	astic,	, ag - amb	er gla						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the asamples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	ent ex	pens	e. The	e repo	rt for the a	nalysis of tl	ne above



envirotech envirotech

Printed: 11/30/2023 9:32:05AM

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:	11/30/23	07:30		Work Order ID:	E311235
Phone:	(972) 371-5200	Date Logged In:	11/30/23	09:27		Logged In By:	Jordan Montano
Email:	agiovngo@ensolum.com	Due Date:	12/06/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes				
	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in	the field,	Yes			Commont	s/Resolution
Sample T	i.e, 15 minute hold time, are not included in this disucssic urn Around Time (TAT)	on.				Comment	<u>s/Resolution</u>
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	· •						
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
•	e sample(s) received intact, i.e., not broken?						
	custody/security seals present?		Yes				
			No				
•	, 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 are minutes of sampling	e received w/i 15	Yes				
	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
	<u>Container</u>						
	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				
	appropriate volume/weight or number of sample contain	ers collected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info	rmation:	37				
	ample ID? ate/Time Collected?		Yes				
	ollectors name?		Yes Yes				
	reservation		103				
	the COC or field labels indicate the samples were pr	eserved?	No				
	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved m	etals?	No				
Multinha	se Sample Matrix						
	the sample have more than one phase, i.e., multiphase	se?	No				
	, does the COC specify which phase(s) is to be analy		NA				
			1421				
	ract Laboratory	0	NT.				
	amples required to get sent to a subcontract laborator	•	No	G 1	37.4		
	subcontract laboratory specified by the client and if	so wno?	NA	Subcontract Lab	: NA		
Client Ir	<u>istruction</u>						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Caviness 10 Federal #001

Work Order: E312048

Job Number: 23052-0001

Received: 12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/15/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/15/23

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

Project Name: Caviness 10 Federal #001

Workorder: E312048

Date Received: 12/8/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: Caviness 10 Federal #001.

The analytical test results summarized in this report with the Project Name: Caviness 10 Federal #001 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

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Client Representative
Office: 505-421-LABS(5227)

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01-0'	5
BH01-0.5'	6
BH02-0'	7
BH02-0.5'	8
BH02-1'	9
BH02-2'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 15:17

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
BH01-0'	E312048-01A Soil	12/06/23	12/08/23	Glass Jar, 2 oz.
BH01-0.5'	E312048-02A Soil	12/06/23	12/08/23	Glass Jar, 2 oz.
BH02-0'	E312048-03A Soil	12/06/23	12/08/23	Glass Jar, 2 oz.
BH02-0.5'	E312048-04A Soil	12/06/23	12/08/23	Glass Jar, 2 oz.
BH02-1'	E312048-05A Soil	12/06/23	12/08/23	Glass Jar, 2 oz.
BH02-2'	E312048-06A Soil	12/06/23	12/08/23	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:17:31PM

BH01-0' E312048-01

		201201001				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2350037
Benzene	ND	0.0250	1	12/12/23	12/13/23	
Ethylbenzene	ND	0.0250	1	12/12/23	12/13/23	
Toluene	0.0553	0.0250	1	12/12/23	12/13/23	
o-Xylene	ND	0.0250	1	12/12/23	12/13/23	
p,m-Xylene	ND	0.0500	1	12/12/23	12/13/23	
Total Xylenes	ND	0.0250	1	12/12/23	12/13/23	
Surrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	12/12/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2350037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/12/23	12/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	12/12/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2350045
Diesel Range Organics (C10-C28)	1080	500	20	12/13/23	12/14/23	
Oil Range Organics (C28-C36)	1490	1000	20	12/13/23	12/14/23	
Surrogate: n-Nonane		89.6 %	50-200	12/13/23	12/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2350035
Chloride	14800	200	10	12/12/23	12/14/23	



Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:17:31PM

BH01-0.5'

E312048-02						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RAS		Batch: 2350037
Benzene	ND	0.0250	1	12/12/23	12/13/23	
Ethylbenzene	ND	0.0250	1	12/12/23	12/13/23	
Toluene	ND	0.0250	1	12/12/23	12/13/23	
o-Xylene	ND	0.0250	1	12/12/23	12/13/23	
o,m-Xylene	ND	0.0500	1	12/12/23	12/13/23	
Total Xylenes	ND	0.0250	1	12/12/23	12/13/23	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	12/12/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2350037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/12/23	12/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %	70-130	12/12/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2350045
Diesel Range Organics (C10-C28)	909	250	10	12/13/23	12/14/23	
Oil Range Organics (C28-C36)	1000	500	10	12/13/23	12/14/23	
Surrogate: n-Nonane		80.7 %	50-200	12/13/23	12/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2350035
Chloride	458	20.0	1	12/12/23	12/14/23	



Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:17:31PM

BH02-0'

E312048-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2350037
Benzene	ND	0.0250	1	12/12/23	12/13/23	
Ethylbenzene	0.0360	0.0250	1	12/12/23	12/13/23	
Toluene	0.0553	0.0250	1	12/12/23	12/13/23	
o-Xylene	ND	0.0250	1	12/12/23	12/13/23	
p,m-Xylene	ND	0.0500	1	12/12/23	12/13/23	
Total Xylenes	ND	0.0250	1	12/12/23	12/13/23	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	12/12/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2350037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/12/23	12/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	12/12/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2350045
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/14/23	
Surrogate: n-Nonane		74.3 %	50-200	12/13/23	12/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2350035
inions by Elitection and the contract of the c						



Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:17:31PM

BH02-0.5'

		E312048-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2350037
Benzene	ND	0.0250	1	12/12/23	12/13/23	
Ethylbenzene	ND	0.0250	1	12/12/23	12/13/23	
Toluene	ND	0.0250	1	12/12/23	12/13/23	
o-Xylene	ND	0.0250	1	12/12/23	12/13/23	
o,m-Xylene	ND	0.0500	1	12/12/23	12/13/23	
Total Xylenes	ND	0.0250	1	12/12/23	12/13/23	
Surrogate: 4-Bromochlorobenzene-PID		91.8 %	70-130	12/12/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2350037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/12/23	12/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130	12/12/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2350045
Diesel Range Organics (C10-C28)	883	500	20	12/13/23	12/14/23	
Oil Range Organics (C28-C36)	1140	1000	20	12/13/23	12/14/23	
Surrogate: n-Nonane		87.7 %	50-200	12/13/23	12/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2350035
Chloride	2630	40.0	2	12/12/23	12/14/23	



Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:17:31PM

BH02-1'

E312048-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RAS		Batch: 2350037
Benzene	ND	0.0250	1	12/12/23	12/13/23	
Ethylbenzene	ND	0.0250	1	12/12/23	12/13/23	
Toluene	ND	0.0250	1	12/12/23	12/13/23	
o-Xylene	ND	0.0250	1	12/12/23	12/13/23	
p,m-Xylene	ND	0.0500	1	12/12/23	12/13/23	
Total Xylenes	ND	0.0250	1	12/12/23	12/13/23	
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	12/12/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2350037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/12/23	12/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	12/12/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350045
Diesel Range Organics (C10-C28)	390	250	10	12/13/23	12/14/23	
Oil Range Organics (C28-C36)	ND	500	10	12/13/23	12/14/23	
Surrogate: n-Nonane		80.6 %	50-200	12/13/23	12/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: DT		Batch: 2350035
Allions by ETA 500.0/3050A						



Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:17:31PM

BH02-2'

E312048-06

		D				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2350037
Benzene	ND	0.0250	1	12/12/23	12/13/23	
Ethylbenzene	ND	0.0250	1	12/12/23	12/13/23	
Toluene	ND	0.0250	1	12/12/23	12/13/23	
o-Xylene	ND	0.0250	1	12/12/23	12/13/23	
p,m-Xylene	ND	0.0500	1	12/12/23	12/13/23	
Total Xylenes	ND	0.0250	1	12/12/23	12/13/23	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	12/12/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: RAS		Batch: 2350037
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/12/23	12/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.4 %	70-130	12/12/23	12/13/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2350045
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/14/23	_
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/14/23	
Surrogate: n-Nonane		81.2 %	50-200	12/13/23	12/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2350035



Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	Caviness 10 Federal #001 23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:17:31PM
	Volatile Orga	nics by EPA 8021B	Analyst: RAS

5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Number: Project Manager:		052-0001 shley Giovengo					12/15/2023 3:17:31PI
					D				
Volatile Organics by EPA 8021B Analyst: RAS									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2350037-BLK1)							Prepared: 1	2/12/23	Analyzed: 12/13/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Foluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.8	70-130			
LCS (2350037-BS1)							Prepared: 1	2/12/23	Analyzed: 12/13/23
Benzene	5.63	0.0250	5.00		113	70-130			
Ethylbenzene	5.47	0.0250	5.00		109	70-130			
Toluene	5.58	0.0250	5.00		112	70-130			
o-Xylene	5.50	0.0250	5.00		110	70-130			
o,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.6	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.7	70-130			
Matrix Spike (2350037-MS1)				Source: E	312048-0	5	Prepared: 1	2/12/23	Analyzed: 12/13/23
Benzene	5.41	0.0250	5.00	ND	108	54-133			
Ethylbenzene	5.25	0.0250	5.00	ND	105	61-133			
Toluene	5.36	0.0250	5.00	ND	107	61-130			
p-Xylene	5.27	0.0250	5.00	ND	105	63-131			
o,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	15.9	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.57		8.00		94.6	70-130			
Matrix Spike Dup (2350037-MSD1)				Source: E	312048-0)5	Prepared: 1	2/12/23	Analyzed: 12/13/23
Benzene	5.13	0.0250	5.00	ND	103	54-133	5.36	20	
Ethylbenzene	5.01	0.0250	5.00	ND	100	61-133	4.81	20	
Toluene	5.09	0.0250	5.00	ND	102	61-130	5.24	20	
p-Xylene	5.01	0.0250	5.00	ND	100	63-131	5.03	20	
o,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	4.64	20	
	15.2		15.0	ND	101	63-131	4.77	20	



Matador Resources, LLC.Project Name:Caviness 10 Federal #001Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo12/15/20233:17:31PM

Dallas TX, 75240		Project Manage	r: As	hley Gioveng	go				12/15/2023 3:17:31PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2350037-BLK1)							Prepared: 1	2/12/23 A	Analyzed: 12/13/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		8.00		89.2	70-130			
LCS (2350037-BS2)							Prepared: 1	2/12/23 A	Analyzed: 12/13/23
Gasoline Range Organics (C6-C10)	42.2	20.0	50.0		84.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			
Matrix Spike (2350037-MS2)				Source:	E312048-	05	Prepared: 1	2/12/23 A	Analyzed: 12/13/23
Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.7	70-130			
Matrix Spike Dup (2350037-MSD2)				Source:	E312048-	05	Prepared: 1	2/12/23 A	Analyzed: 12/13/23
Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130	2.97	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		8.00		88.5	70-130			

Matador Resources, LLC.Project Name:Caviness 10 Federal #001Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo12/15/20233:17:31PM

Dallas 1A, /3240		Project Manage	r: As	miey Gloveng	30				12/13/2023 3.17.31FF
	Nonha	logenated Or	ganics by	EPA 8015I	D - 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 (2350045-BLK1)							Prepared: 1	2/13/23 A	nalyzed: 12/14/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.2		50.0		84.4	50-200			
LCS (2350045-BS1)							Prepared: 1	2/13/23 A	nalyzed: 12/14/23
Diesel Range Organics (C10-C28)	219	25.0	250		87.7	38-132			
Surrogate: n-Nonane	40.8		50.0		81.6	50-200			
Matrix Spike (2350045-MS1)				Source:	E312048-0	03	Prepared: 1	2/13/23 A	nalyzed: 12/14/23
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.5	38-132			
Surrogate: n-Nonane	40.2		50.0		80.3	50-200			
Matrix Spike Dup (2350045-MSD1)				Source:	E312048-	03	Prepared: 1	2/13/23 A	nalyzed: 12/14/23
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.4	38-132	3.49	20	
Surrogate: n-Nonane	42.6		50.0		85.1	50-200			



Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	Caviness 10 Federal #001 23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:17:31PM

		Anions	by EPA 3	00.0/9056	A		Analyst: DT			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2350035-BLK1)							Prepared: 1	2/12/23 Anal	yzed: 12/14/23	
Chloride	ND	20.0								
LCS (2350035-BS1)							Prepared: 1	2/12/23 Anal	yzed: 12/14/23	
Chloride	242	20.0	250		96.7	90-110				

Matrix Spike (2350035-MS1)				Source:	E312048-0	2	Prepared: 12	2/12/23 A	nalyzed: 12/14	/23
Chloride	730	20.0	250	458	109	80-120				
Matrix Spike Dup (2350035-MSD1)				Source:	E312048-0	2	Prepared: 12	2/12/23 A	nalyzed: 12/14	/23
Chloride	732	20.0	250	458	110	80-120	0.360	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:Caviness 10 Federal #0015400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo12/15/23 15:17

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



	Page	of OCD: 1/23/2024	
r	ogram	ر رو	4
1	SDWA		2
	RCRA	- CD: [/	1
1	TX	25/202	
		7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		7:11:24 AM	

Client:	Matador Pro	duction C	Company.		Bill To	o			La	b Us	se Onl	У				T	AT	EPA P	rogram
Project:	Carness	10 Feel	pro1 #0	01	Attention: Matador Pro	duction Company	Lab	WO#		- 100	Job N			1D	2D	3D	Standard	CWA	SDWA
Project	Manager: As	shley Gio	vengo		Address: on file	Address: on file		E312048		23052-0001		1000-				X			
Address	: 3122 Natio	nal Parks	s Hwy		City, State, Zip:						Analys	is an	d Metho	d					RCRA
City, Sta	te, Zip: Carl	sbad NM	, 88220		Phone: (337)319-8398			by											
-	575-988-005				Email: clinton.talley@m	atadorresources.com		ORO										State	
Email: a	agiovengo@e	ensolum.	com					RO/	21	0		300.0		Σ×		×	NM CO	UT AZ	TX
Report of	due by:				(Last)			g/o:	/ 80	8260	6010	e 30				X	X		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by	Metals 6010	Chloride		BGDOC		GDOC		Remarks	
6401	12/6/23	5	1	BHO1 -	01									X					
0903	12/6/23	5	1	BH01-	0,5	2								X					
1003	12/6/23	5	1	BH02-	0'	3								X					
1010	12/6/23	5	1	BH02-	0.5	4								X					
1012	12/6/23	5	1	B1402	- 13	5								X					
1015	12/6/23	5	(131402-	2'	6								X					
Addition	al Instructio	ns: Plea	ase CC: cl	ourton@enso	lum.com, agiovengo@ensolur	m.com, chadhmilton	@en	solur	n.cor	n, e	haft@	Pens	olum.co	m					
				y of this sample. It	am aware that tampering with or intentio	onally mislabelling the sample	locat	ion,									eceived on ice the da less than 6 °C on sub		pled or
	ed by: (Signatur		Date	7/23 Time	Received by: (Signature)	uyl 127.	23	Time	30		Recei	ived	on ice:		U de	se Or	nly		
Muc	ed by: (Signatur	1h			130 lodow Muss		.25	Time	700		T1			<u>T2</u>			T3		
11	ed by: (Signatur	re/	Date	-8-23 1	Received by: (Signature)	Date 12-8.	2,2	Time	300	5	AVG	Tem	p°c	+					
	rix: S - Soil, Sd - S	olid, Sg - Slu			(Container	Тур	e: g - g	glass,	p - p	oly/pla	astic,	ag - amb	oer gl	ass, v	- VO	A		
					nless other arrangements are made.													analysis of t	he above
samples is	applicable only	to those sa	amples rece	eived by the labo	ratory with this COC. The liability of t	the laboratory is limited to	the	amour	nt paid	ford	on the r	report	t.						

disposed of at the client expense. The report for the analysis of the above in the report.

Page 6

Environment of the analysis of the above on the report.

Page 16 of 17

envirotech Inc.

Printed: 12/11/2023 12:06:38PM

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:	12/08/23	13:00	Work Order ID:	E312048
Phone:	(972) 371-5200	Date Logged In:	12/08/23	13:21	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23	17:00 (5 day TAT)		
Chain of	Custody (COC)					
	he sample ID match the COC?		Yes			
	he number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Couri	or	
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes	Carrier. Court	<u>CI</u>	
	ill samples received within holding time?	orea amary ses.	Yes			
	Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi				Comment	s/Resolution
	Furn Around Time (TAT) e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (· •					
	sample cooler received?		Yes			
	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
	, were custody/security seals intact?					
			NA			
	ne sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples at minutes of sampling	re received w/i 15	Yes			
	visible ice, record the temperature. Actual sample	e temperature. 4	<u>~</u>			
	Container avecage VOC commiss present?		NT-			
	queous VOC samples present?		No NA			
	VOC samples collected in VOA Vials?		NA NA			
	head space less than 6-8 mm (pea sized or less)?					
	a trip blank (TB) included for VOC analyses?	ō	NA			
	on-VOC samples collected in the correct containers		Yes			
	appropriate volume/weight or number of sample contai	ners collected?	Yes			
Field La						
	field sample labels filled out with the minimum infample ID?	ormation:	Yes			
	Pate/Time Collected?		Yes			
	Collectors name?		Yes			
Sample I	Preservation					
21. Does	the COC or field labels indicate the samples were p	reserved?	No			
22. Are s	ample(s) correctly preserved?		NA			
	filteration required and/or requested for dissolved r	netals?	No			
Multipha	ase Sample Matrix					
_	the sample have more than one phase, i.e., multipha	ise?	No			
	, does the COC specify which phase(s) is to be anal		NA			
		•	1111			
	ract Laboratory	9	NI.			
	amples required to get sent to a subcontract laborate	-	No	0.1 4 47 1 374		
29. Was a	a subcontract laboratory specified by the client and i	1 SO WIIO?	NA	Subcontract Lab: NA	1	
Client I	<u>nstruction</u>					
						19-21

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Caviness 10 Federal #001

Work Order: E401008

Job Number: 23052-0001

Received: 1/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/8/24

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: 1/8/24

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

Project Name: Caviness 10 Federal #001

Workorder: E401008

Date Received: 1/3/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/3/2024 8:00:00AM, under the Project Name: Caviness 10 Federal #001.

The analytical test results summarized in this report with the Project Name: Caviness 10 Federal #001 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

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS01 - 0.5'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

Γ	Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	Donoutodi
١	5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/08/24 13:47

Client Sample ID	Lab Sample ID Mat	atrix S	Sampled	Received C	Container
FS01 - 0.5'	E401008-01A Sc	oil	12/29/23	01/03/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/8/2024 1:47:18PM

FS01 - 0.5' E401008-01

	E401000-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: EG		Batch: 2401009
ND	0.0250	1	1 01/03/24		
ND	0.0250	1	01/03/24	01/03/24	
ND	0.0250	1	01/03/24	01/03/24	
ND	0.0250	1	01/03/24	01/03/24	
ND	0.0500	1	01/03/24	01/03/24	
ND	0.0250	1	01/03/24	01/03/24	
	95.0 %	70-130	01/03/24	01/03/24	
mg/kg	mg/kg	Anal	yst: EG		Batch: 2401009
ND	20.0	1	01/03/24	01/03/24	
	93.8 %	70-130	01/03/24	01/03/24	
mg/kg	mg/kg	Anal	yst: KM		Batch: 2401017
55.3	25.0	1	01/03/24	01/04/24	
76.0	50.0	1	01/03/24	01/04/24	
	98.3 %	50-200	01/03/24	01/04/24	
mg/kg	mg/kg	Anal	Analyst: IY		Batch: 2401013
4540	40.0	2	01/03/24	01/04/24	
	mg/kg ND ND ND ND ND ND ND The state of the	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg Mg/kg mg/kg mg/kg mg/kg 55.3 25.0 76.0 50.0 98.3 % mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 95.0 % 70-130 mg/kg mg/kg Anal ND 20.0 1 93.8 % 70-130 mg/kg mg/kg Anal 55.3 25.0 1 76.0 50.0 1 98.3 % 50-200 mg/kg mg/kg Anal	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: EG ND 0.0250 1 01/03/24 ND 0.0250 1 01/03/24 ND 0.0250 1 01/03/24 ND 0.0250 1 01/03/24 ND 0.0500 1 01/03/24 ND 0.0250 1 01/03/24 mg/kg mg/kg Analyst: EG ND 20.0 1 01/03/24 mg/kg mg/kg Analyst: KM 55.3 25.0 1 01/03/24 76.0 50.0 1 01/03/24 mg/kg mg/kg Analyst: KM	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 01/03/24 01/03/24 ND 0.0250 1 01/03/24 01/03/24 ND 0.0250 1 01/03/24 01/03/24 ND 0.0500 1 01/03/24 01/03/24 ND 0.0250 1 01/03/24 01/03/24 ND 0.0250 1 01/03/24 01/03/24 mg/kg mg/kg Analyst: EG ND 20.0 1 01/03/24 01/03/24 mg/kg mg/kg Analyst: EG ND 20.0 1 01/03/24 01/03/24 mg/kg mg/kg Analyst: KM 55.3 25.0 1 01/03/24 01/04/24 76.0 50.0 1 01/03/24 01/04/24 mg/kg mg/kg Analyst: IY



Toluene

o-Xylene

p,m-Xylene

Total Xylenes

QC Summary Data

Caviness 10 Federal #001 Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23052-0001 Dallas TX, 75240 Project Manager: Ashley Giovengo 1/8/2024 1:47:18PM **Volatile Organics by EPA 8021B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2401009-BLK1) Prepared: 01/03/24 Analyzed: 01/03/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.63 8.00 95.4 70-130 LCS (2401009-BS1) Prepared: 01/03/24 Analyzed: 01/03/24 5.14 5.00 103 70-130 0.0250 Benzene Ethylbenzene 5.11 0.0250 5.00 102 70-130 70-130 5.17 0.0250 5.00 103 Toluene 103 o-Xylene 5.13 0.0250 5.00 70-130 10.4 10.0 104 70-130 0.0500 p.m-Xvlene 104 70-130 15.6 0.0250 15.0 Total Xylenes 8.00 96.6 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.73 Source: E401007-01 Matrix Spike (2401009-MS1) Prepared: 01/03/24 Analyzed: 01/03/24 Benzene 0.0500 10.0 ND 54-133 ND 103 61-133 Ethylbenzene 10.3 0.0500 10.0

Surrogate: 4-Bromochlorobenzene-PID	15.6		16.0		97.3	70-130			
Matrix Spike Dup (2401009-MSD1)				Source:	E401007-	01	Prepared: 01	/03/24 Ana	lyzed: 01/03/24
Benzene	10.3	0.0500	10.0	ND	103	54-133	0.867	20	
Ethylbenzene	10.3	0.0500	10.0	ND	103	61-133	0.390	20	
Toluene	10.3	0.0500	10.0	ND	103	61-130	0.598	20	
o-Xylene	10.3	0.0500	10.0	ND	103	63-131	0.582	20	
p,m-Xylene	20.9	0.100	20.0	ND	105	63-131	0.410	20	
Total Xylenes	31.2	0.0500	30.0	ND	104	63-131	0.467	20	
Surrogate: 4-Bromochlorobenzene-PID	15.6		16.0		97.6	70-130			

10.0

10.0

20.0

30.0

ND

ND

ND

ND

104

103

105

61-130

63-131

63-131

63-131

10.4

10.3

21.0

0.0500

0.0500

0.100

0.0500



LCS (2401009-BS2)

Prepared: 01/03/24 Analyzed: 01/03/24

QC Summary Data

Matador Resources, LLC.Project Name:Caviness 10 Federal #001Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo1/8/20241:47:18PM

	Nonhalogenated Organics by EPA 8015D - GRO								
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2401009-BLK1)							Prepared: 0	1/03/24 Ana	lyzed: 01/03/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0		102	70-130	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130	
Matrix Spike (2401009-MS2)				Source:	E401007-	01	Prepared: 01/03/24 Analyzed: 01/03/24
Gasoline Range Organics (C6-C10)	102	40.0	100	ND	102	70-130	

Surrogate: 1-Chloro-4-fluorobenzene-FID	15.3		16.0		95.7	70-130			
Matrix Spike Dup (2401009-MSD2)				Source:	E401007-0)1	Prepared: 01	1/03/24 Analyzed: 01/03/24	
Gasoline Range Organics (C6-C10)	103	40.0	100	ND	103	70-130	0.384	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.2		16.0		95.2	70-130			

Matador Resources, LLC.Project Name:Caviness 10 Federal #001Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo1/8/20241:47:18PM

Danas 1A, 75240		1 Toject Wianage	1. 713	mey Gloveng	50				170/2021 1:17:1011
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2401017-BLK1)							Prepared: 0	1/03/24 An	alyzed: 01/03/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.0		50.0		100	50-200			
LCS (2401017-BS1)							Prepared: 0	1/03/24 An	alyzed: 01/03/24
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
Surrogate: n-Nonane	53.3		50.0		107	50-200			
Matrix Spike (2401017-MS1)				Source:	E401007-	01	Prepared: 0	1/03/24 An	alyzed: 01/03/24
Diesel Range Organics (C10-C28)	276	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			
Matrix Spike Dup (2401017-MSD1)				Source:	E401007-	01	Prepared: 0	1/03/24 An	alyzed: 01/03/24
Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	38-132	0.775	20	
Surrogate: n-Nonane	51.7		50.0		103	50-200			

	Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		Caviness 10 Fed 23052-0001	eral #001				Reported:
	Dallas TX, 75240		Project Manager		Ashley Giovenge					1/8/2024 1:47:18PM
			Anions	by EP	A 300.0/9056A					Analyst: IY
Analy	yte	D. I	Reporting	Spike		D	Rec	DDD	RPD	

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2401013-BLK1)							Prepared: 0	1/03/24 Ar	nalyzed: 01/03/24
Chloride	ND	20.0							
LCS (2401013-BS1)							Prepared: 0	1/03/24 Ar	nalyzed: 01/03/24
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2401013-MS1)				Source:	E401004-	02	Prepared: 0	1/03/24 Ar	nalyzed: 01/03/24
Chloride	265	20.0	250	ND	106	80-120			
Matrix Spike Dup (2401013-MSD1)				Source:	E401004-	02	Prepared: 0	1/03/24 Ar	nalyzed: 01/03/24
Chloride	264	20.0	250	ND	106	80-120	0.184	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:Caviness 10 Federal #0015400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo01/08/24 13:47

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.

	a 7.5 a
Page	of 1

Client: I	Matador Pro	duction C	ompany.		Bill To			2.00	La	b Use Only				TAT			AT	EPA P	rogram
Project:	Cariness	10 Fed	eral H	001	Attention: Matador Producti	on Company	Lal	b WO#	#		Job I	Num	ber	1D	2D	3D	Standard	CWA	SDWA
Project I	Manager: As	hley Giov	vengo		Address: on file		E	401	0	18	23	05	20001				X		
Address	: 3122 Natio	nal Parks	Hwy		City, State, Zip:								nd Metho						RCRA
City, Sta	te, Zip: Carl:	sbad NM,	88220		Phone: (337)319-8398			by											
Phone:	575-988-005	55			Email: clinton.talley@matado	orresources.com	n	ORO										State	
Email: a	giovengo@e	ensolum.c	com				3	3/08	н	_	1	0.		ΣN	1		NM CO	UT AZ	TX
Report o	lue by:							J/DF	802	3260	010	300				×	X		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Numbe		TPH GRO/DRO/ORO by 8015	BTEX by	BTEX by 8021 VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
0853	12/201/23	5	l	FS01-	0,5									X					
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							-							-	-				
							+							-	+	-			
							-								-				
-7.1-																			
Addition	al Instructio	ns: Plea	ase CC: ck	ourton@ensol	um.com, agiovengo@ensolum.com	m, chadhmilto	1@e	nsolur	m.co	m, e	haft@	ens	olum.co	m					
					m aware that tampering with or intentionally mal action. Sampled by: Check		le loca	ition,			100						eceived on ice the da less than 6 °C on sub		pled or
	ed by: (Signatu		Date	be grounds for leg	Received by: (Signature)	Date Date		Time	r m s2							se Or	nly		
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Sample Mat	rix: S - Soil, Sd - S	olid, Sg - Slu	dge, A - Aque	eous, O - Other									ag - amb					anhust of	ha abarra
					nless other arrangements are made. Haza atory with this COC. The liability of the lab	the second secon								ent e	xpens	e. In	e report for the a	marysis of t	ne above
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Compared to the client expense. The report for the analysis of the above in the report.

Printed: 1/3/2024 8:31:50AM

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:	01/03/24	08:00		Work Order ID:	E401008
Phone:	(972) 371-5200	Date Logged In:	01/03/24	08:29		Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:		17:00 (4 day TAT)		86	
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 mat	ch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier_		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	_			
5. Were a	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic	•				Comment	s/Resolution
Sample T	<u>urn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If 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				
	were custody/security seals intact?		NA				
•	e sample received on ice? If yes, the recorded temp is 4°C,	ie 6°+2°C	Yes				
12. Was th	Note: Thermal preservation is not required, if samples are minutes of sampling		ics				
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°	<u>C</u>				
Sample C	Container						
	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	P	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lat	pel						
	— field sample labels filled out with the minimum info	rmation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
	reservation						
	the COC or field labels indicate the samples were pr	eserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	ietals?	No				
<u>Multipha</u>	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes.	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	rv?	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	o: NA		
Client Ir	estruction						
Chent II	isti uction						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Caviness 10 Federal #001

Work Order: E401015

Job Number: 23052-0001

Received: 1/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/9/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/9/24

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

Project Name: Caviness 10 Federal #001

Workorder: E401015

Date Received: 1/7/2024 3:30:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/7/2024 3:30:00PM, under the Project Name: Caviness 10 Federal #001.

The analytical test results summarized in this report with the Project Name: Caviness 10 Federal #001 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

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Michelle Golzales

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS04-1.5'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

Γ	Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	Danautada
١	5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
l	Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/09/24 14:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS04-1.5'	E401015-01A	Soil	01/02/24	01/07/24	Glass Jar, 2 oz.



Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/9/2024 2:40:18PM

FS04-1.5' E401015-01

		E401015-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilution	Trepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2402003
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		93.6 %	70-130	01/08/24	01/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2402003
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	70-130	01/08/24	01/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2402008
Diesel Range Organics (C10-C28)	249	50.0	2	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	173	100	2	01/08/24	01/08/24	
Surrogate: n-Nonane		100 %	50-200	01/08/24	01/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2402012
Chloride	1620	40.0	2	01/08/24	01/08/24	



Caviness 10 Federal #001 Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23052-0001 Dallas TX, 75240 Project Manager: Ashley Giovengo 1/9/2024 2:40:18PM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2402003-BLK1) Prepared: 01/08/24 Analyzed: 01/08/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.65 8.00 95.6 70-130 LCS (2402003-BS1) Prepared: 01/08/24 Analyzed: 01/08/24 4.97 99.5 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.96 0.0250 5.00 99.2 70-130 5.00 0.0250 5.00 99.9 70-130 Toluene 99.9 o-Xylene 4.99 0.0250 5.00 70-130 10.1 10.0 101 70-130 0.0500 p.m-Xvlene 101 70-130 15.1 15.0 Total Xylenes 0.0250 8.00 97.2 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.78 Source: E401016-02 Matrix Spike (2402003-MS1) Prepared: 01/08/24 Analyzed: 01/08/24 4.65 0.0250 5.00 ND 54-133 Benzene ND 92.5 61-133 Ethylbenzene 4.62 0.0250 5.00 Toluene 4.67 0.0250 5.00 ND 93.5 61-130 ND 93.1 63-131 4.66 5.00 0.0250 o-Xylene p,m-Xylene 9.46 0.0500 10.0 ND 94.6 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.67 8.00 Matrix Spike Dup (2402003-MSD1) Source: E401016-02 Prepared: 01/08/24 Analyzed: 01/08/24 5.12 0.0250 5.00 ND 102 54-133 9.49

5.09

5.13

5.11

10.4

15.5

7.65

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

ND

102

103

102

104

103

95.6

61-133

61-130

63-131

63-131

63-131

70-130

9.65

9 35

9.35

9.25

9.28

20

20

20

20

20



Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Matador Resources, LLC.Project Name:Caviness 10 Federal #001Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo1/9/20242:40:18PM

Dallas TX, 75240		Project Manage		shley Gioveng	go				1/9/2024 2:40:18PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2402003-BLK1)							Prepared: 0	1/08/24 An	alyzed: 01/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.7	70-130			
LCS (2402003-BS2)							Prepared: 0	1/08/24 An	alyzed: 01/08/24
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			
Matrix Spike (2402003-MS2)				Source:	E401016-	02	Prepared: 0	1/08/24 An	alyzed: 01/08/24
Gasoline Range Organics (C6-C10)	50.5	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		8.00		96.0	70-130			
Matrix Spike Dup (2402003-MSD2)				Source:	E401016-	02	Prepared: 0	1/08/24 An	alyzed: 01/08/24
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.4	70-130	2.59	20	

8.00

7.61

95.2

70-130

Matador Resources, LLC.Project Name:Caviness 10 Federal #001Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo1/9/20242:40:18PM

Danas 1X, 73240		1 Toject Ivianage	1. 710	micy Gloveng	50				1/9/2021 2:10:1011
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2402008-BLK1)							Prepared: 0	1/08/24 An	alyzed: 01/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.5		50.0		94.9	50-200			
LCS (2402008-BS1)							Prepared: 0	1/08/24 An	alyzed: 01/08/24
Diesel Range Organics (C10-C28)	265	25.0	250		106	38-132			
Surrogate: n-Nonane	48.7		50.0		97.3	50-200			
Matrix Spike (2402008-MS1)				Source:	E401016-0	06	Prepared: 0	1/08/24 An	alyzed: 01/08/24
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	51.4		50.0		103	50-200			
Matrix Spike Dup (2402008-MSD1)				Source:	E401016-0	06	Prepared: 0	1/08/24 An	alyzed: 01/08/24
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	3.30	20	
Surrogate: n-Nonane	47.1		50.0		94.2	50-200			

Matador Resources, LLC.		Project Name:	•				Reported:		
5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Number: 23052-0001 Project Manager: Ashley Giov			go		1/9/2024 2:40:18PM		
		Anions	by EPA	300.0/9056 <i>E</i>	4				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2402012-BLK1)							Prepared: 0	1/08/24 A	nalyzed: 01/08/24
Chloride	ND	20.0							
LCS (2402012-BS1)							Prepared: 0	1/08/24 A	nalyzed: 01/08/24
Chloride	247	20.0	250		98.8	90-110			

Chloride	247	20.0	250	98.8 90-110
Matrix Spike (2402012-MS1)				Source: E401016-01 Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	663	20.0	250	411 101 80-120
Matrix Spike Dup (2402012-MSD1)				Source: E401016-01 Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	658	20.0	250	411 99.2 80-120 0.679 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:Caviness 10 Federal #0015400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo01/09/24 14:40

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custo

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Page 1	01_1	

	Matador Prod				Bill To	1			La	ab Us	se On	ly					TA	T	EPA P	rogram
	Pariness			OL	Attention: Matador Production C	ompany	Lab	WO#			Job I			1	D 2	2D	3D	Standard	CWA	SDWA
Project N	Manager: As	hley Giov	/engo		Address: on file		E	4010	015		200	502	1000					X		
Address:	3122 Natio	nal Parks	Hwy		City, State, Zip:						Analy	sis a	nd Meth	od						RCRA
City, Stat	e, Zip: Carls	bad NM,	88220		Phone: (337)319-8398			by				Y						The state of		
Phone:	575-988-005	5			Email: clinton.talley@matadorres	ources.com		ORO											State	
Email: a	giovengo@e	nsolum.c	com					0/0	н			0.		1 2	N N			NM CO	UT AZ	TX
Report d	ue by:							3/DR 802:	3260	010	300					¥	X			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		0000	BGDOC		GDOC		Remarks	
1413	01/02/23	5	١	FS04-	1.51	l)	1					
														T	1					
														+	+	1	7			
														+	+	+				
														+	+					
														1	-	4				
Addition	al Instructio	ns: Plea	ase CC: cl	ourton@enso	lum.com, agiovengo@ensolum.com, cl	nadhmilton	@er	solur	n.co	m, e	haft@	@en:	solum.c	om						
					am aware that tampering with or intentionally mislabe		locat	ion,			1000							ceived on ice the da		
				be grounds for leg				L		_				_			-			
	ed by: (Signatur			13/25	Middle Gent	Date /- 3-2	14	Time /C	145	5	Rece	eived	on ice:		(V)		e Onl	ly		
Mich	ed by: (Signatur	ente	Date /-		Received by: (Signature) Received by: (Signature)	1-5-7	4	Time 7	700)	T1			<u>T2</u>	2			<u>T3</u>		
Relinquish	ed by: (Signatur	400	Date	5.24 Time	Received by: (Signature)	Date 01/07	щ	Time	:30		AVG	Tem	np °C_4	-D						
Sample Mate	rix: S - Soil, Sd - S	-	_		200 1000000	Container			-			_			glas	s. v -	VOA			
			74000		nless other arrangements are made. Hazardous														analysis of t	he ahove



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envirotech Inc.

Printed: 1/8/2024 3:29:04PM

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:	01/07/24	15:30		Work Order ID:	E401015
Phone:	(972) 371-5200	Date Logged In:	01/05/24	11:08		Logged In By:	Jordan Montano
Email:	agiovngo@ensolum.com	Due Date:	01/10/24	17:00 (2 day TAT)			
Chain o	f Custody (COC)						
	the sample ID match the COC?		Yes				
	the number of samples per sampling site location mat	ch the COC	Yes				
	samples dropped off by client or carrier?		Yes	Corrier: C	'ourier		
	ne COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier: C	<u>ourier</u>		
	all samples received within holding time?	aca anary ses.	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		103	ſ		Comment	s/Resolution
	Turn Around Time (TAT)						
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
11. If ye	s, were custody/security seals intact?		NA				
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
		temperature. 4	<u>C</u>				
	Container		».T				
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers		Yes				
	appropriate volume/weight or number of sample contain	ers collected?	Yes				
Field La							
	e field sample labels filled out with the minimum info	rmation:	V				
	Sample ID? Date/Time Collected?		Yes				
	Collectors name?		Yes Yes				
	Preservation		103				
	the COC or field labels indicate the samples were pr	eserved?	No				
	sample(s) correctly preserved?		NA				
	o filteration required and/or requested for dissolved m	etals?	No				
	ase Sample Matrix		110				
	s the sample have more than one phase, i.e., multiphase	202	NT-				
	s, does the COC specify which phase(s) is to be analy		No				
		zeur	NA				
	ract Laboratory						
	samples required to get sent to a subcontract laborator	-	No				
29. Was	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	: NA		
Client l	<u>Instruction</u>						

Date

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

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Caviness 10 Federal #001

Work Order: E401026

Job Number: 23052-0001

Received: 1/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 1/15/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/15/24

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

Project Name: Caviness 10 Federal #001

Workorder: E401026

Date Received: 1/9/2024 8:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/9/2024 8:45:00AM, under the Project Name: Caviness 10 Federal #001.

The analytical test results summarized in this report with the Project Name: Caviness 10 Federal #001 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

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labadmin@envirotech-inc.com

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Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS02 - 2.5'	5
FS03 - 2.5'	6
FS05 - 1.5'	7
FS06 - 1.5'	8
FS07 - 1.5'	9
SW01 -0-2.5'	10
SW02 0-2.5'	11
QC Summary Data	12
QC - Volatile Organic Compounds by EPA 8260B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17

Sample Summary

Matador Resources, LLC.	Project Name:	Caviness 10 Federal #001	Donoutoda
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/15/24 14:52

Client Sample ID	Lab Sample ID Ma	trix Sampled	Received	Container
FS02 - 2.5'	E401026-01A S	oil 01/05/24	01/09/24	Glass Jar, 2 oz.
FS03 - 2.5'	E401026-02A S	oil 01/05/24	01/09/24	Glass Jar, 2 oz.
FS05 - 1.5'	E401026-03A S	oil 01/05/24	01/09/24	Glass Jar, 2 oz.
FS06 - 1.5'	E401026-04A S	oil 01/05/24	01/09/24	Glass Jar, 2 oz.
FS07 - 1.5'	E401026-05A S	oil 01/05/24	01/09/24	Glass Jar, 2 oz.
SW01 -0-2.5'	E401026-06A S	oil 01/05/24	01/09/24	Glass Jar, 2 oz.
SW02 0-2.5'	E401026-07A S	oil 01/05/24	01/09/24	Glass Jar, 2 oz.

Matador Resources, LLC.Project Name:Caviness 10 Federal #0015400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo1/15/20242:52:18PM

FS02 - 2.5' E401026-01

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2402021
Benzene	ND	0.0250	1	1	01/09/24	01/11/24	
Ethylbenzene	ND	0.0250	1	1	01/09/24	01/11/24	
Toluene	ND	0.0250	1	1	01/09/24	01/11/24	
o-Xylene	ND	0.0250	1	1	01/09/24	01/11/24	
p,m-Xylene	ND	0.0500	1	1	01/09/24	01/11/24	
Total Xylenes	ND	0.0250	1	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		107 %	70-130		01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130		01/09/24	01/11/24	
Surrogate: Toluene-d8		110 %	70-130		01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2402021
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		107 %	70-130		01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130		01/09/24	01/11/24	
Surrogate: Toluene-d8		110 %	70-130		01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: JL		Batch: 2402027
Diesel Range Organics (C10-C28)	ND	25.0	1	1	01/09/24	01/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	01/09/24	01/10/24	
Surrogate: n-Nonane		75.1 %	50-200		01/09/24	01/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: IY		Batch: 2402032
Chloride	4250	20.0		1	01/09/24	01/10/24	

Matador Resources, LLC.Project Name:Caviness 10 Federal #0015400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo1/15/2024 2:52:18PM

FS03 - 2.5' E401026-02

		E401020-02					
Analyte	Result	Reporting Limit		ıtion	Prepared	Analyzed	Notes
marye	Result		Dilu	111011	1 repared	Zinalyzed	110105
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2402021
Benzene	ND	0.0250	1	1	01/09/24	01/11/24	
Ethylbenzene	ND	0.0250	1	1	01/09/24	01/11/24	
Toluene	ND	0.0250	1	1	01/09/24	01/11/24	
o-Xylene	ND	0.0250	1	1	01/09/24	01/11/24	
p,m-Xylene	ND	0.0500	1	1	01/09/24	01/11/24	
Total Xylenes	ND	0.0250	1	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		107 %	70-130		01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		01/09/24	01/11/24	
Surrogate: Toluene-d8		107 %	70-130		01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2402021
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		107 %	70-130		01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		01/09/24	01/11/24	
Surrogate: Toluene-d8		107 %	70-130		01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2402027
Diesel Range Organics (C10-C28)	ND	25.0	1	1	01/09/24	01/10/24	_
Oil Range Organics (C28-C36)	ND	50.0	1	1	01/09/24	01/10/24	
Surrogate: n-Nonane		69.7 %	50-200		01/09/24	01/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2402032
Chloride	1680	20.0	1	1	01/09/24	01/10/24	

Matador Resources, LLC.Project Name:Caviness 10 Federal #0015400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo1/15/2024 2:52:18PM

FS05 - 1.5' E401026-03

		E401020-03					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
					•	7 mary 20d	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2402021
Benzene	ND	0.0250	1	l	01/09/24	01/11/24	
Ethylbenzene	ND	0.0250	1	l	01/09/24	01/11/24	
Toluene	ND	0.0250	1	1	01/09/24	01/11/24	
o-Xylene	ND	0.0250	1	1	01/09/24	01/11/24	
p,m-Xylene	ND	0.0500	1	1	01/09/24	01/11/24	
Total Xylenes	ND	0.0250	1	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene	·	109 %	70-130		01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		01/09/24	01/11/24	
Surrogate: Toluene-d8		111 %	70-130		01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2402021
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		109 %	70-130		01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		01/09/24	01/11/24	
Surrogate: Toluene-d8		111 %	70-130		01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2402027
Diesel Range Organics (C10-C28)	58.7	50.0	2	2	01/09/24	01/10/24	
Oil Range Organics (C28-C36)	ND	100	2	2	01/09/24	01/10/24	
Surrogate: n-Nonane		73.1 %	50-200		01/09/24	01/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2402032
Chloride	506	20.0	1	1	01/09/24	01/10/24	



Matador Resources, LLC.Project Name:Caviness 10 Federal #0015400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo1/15/2024 2:52:18PM

FS06 - 1.5' E401026-04

		12-101020-0-				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Amaryce	Result	Lillit		1	Anaryzeu	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2402021
Benzene	ND	0.0250	1	01/09/24	01/11/24	
Ethylbenzene	ND	0.0250	1	01/09/24	01/11/24	
Toluene	ND	0.0250	1	01/09/24	01/11/24	
o-Xylene	ND	0.0250	1	01/09/24	01/11/24	
p,m-Xylene	ND	0.0500	1	01/09/24	01/11/24	
Total Xylenes	ND	0.0250	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		90.0 %	70-130	01/09/24	01/11/24	
Surrogate: Toluene-d8		110 %	70-130	01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2402021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		110 %	70-130	01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		90.0 %	70-130	01/09/24	01/11/24	
Surrogate: Toluene-d8		110 %	70-130	01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2402027
Diesel Range Organics (C10-C28)	115	50.0	2	01/09/24	01/10/24	
Oil Range Organics (C28-C36)	172	100	2	01/09/24	01/10/24	
Surrogate: n-Nonane		79.7 %	50-200	01/09/24	01/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: IY		Batch: 2402032
Chloride	234	20.0	1	01/09/24	01/10/24	

Matador Resources, LLC.Project Name:Caviness 10 Federal #0015400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo1/15/20242:52:18PM

FS07 - 1.5' E401026-05

		E401020-03					
Aughto	Result	Reporting Limit	Dilu	ıti om	Duomonod	Amalyzad	Notes
Analyte	Result	Limit	Dilu	luon	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2402021
Benzene	ND	0.0250	1	1	01/09/24	01/11/24	
Ethylbenzene	ND	0.0250	1	1	01/09/24	01/11/24	
Toluene	ND	0.0250	1	1	01/09/24	01/11/24	
o-Xylene	ND	0.0250	1	1	01/09/24	01/11/24	
p,m-Xylene	ND	0.0500	1	1	01/09/24	01/11/24	
Total Xylenes	ND	0.0250	1	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		108 %	70-130		01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130		01/09/24	01/11/24	
Surrogate: Toluene-d8		110 %	70-130		01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2402021
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		108 %	70-130		01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130		01/09/24	01/11/24	
Surrogate: Toluene-d8		110 %	70-130		01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	Л		Batch: 2402027
Diesel Range Organics (C10-C28)	108	50.0	2	2	01/09/24	01/10/24	
Oil Range Organics (C28-C36)	142	100	2	2	01/09/24	01/10/24	
Surrogate: n-Nonane		77.3 %	50-200		01/09/24	01/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2402032
Chloride	180	20.0	1	1	01/09/24	01/10/24	

Matador Resources, LLC.Project Name:Caviness 10 Federal #0015400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo1/15/20242:52:18PM

SW01 -0-2.5'

		E401026-06					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: l	RKS		Batch: 2402021
Benzene	ND	0.0250	1	1	01/09/24	01/11/24	
Ethylbenzene	ND	0.0250	1	1	01/09/24	01/11/24	
Toluene	ND	0.0250	1	1	01/09/24	01/11/24	
o-Xylene	ND	0.0250	1	1	01/09/24	01/11/24	
p,m-Xylene	ND	0.0500	1	l	01/09/24	01/11/24	
Total Xylenes	ND	0.0250	1	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		108 %	70-130		01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130		01/09/24	01/11/24	
Surrogate: Toluene-d8		111 %	70-130		01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: l	RKS		Batch: 2402021
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		108 %	70-130		01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130		01/09/24	01/11/24	
Surrogate: Toluene-d8		111 %	70-130		01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	ΠL		Batch: 2402027
Diesel Range Organics (C10-C28)	60.2	50.0		2	01/09/24	01/10/24	
Oil Range Organics (C28-C36)	ND	100	2	2	01/09/24	01/10/24	
Surrogate: n-Nonane		73.7 %	50-200		01/09/24	01/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	IY		Batch: 2402032
Chloride	1140	20.0	1	1	01/09/24	01/10/24	



Matador Resources, LLC.Project Name:Caviness 10 Federal #0015400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo1/15/20242:52:18PM

SW02 0-2.5' E401026-07

		2.01020 07				
Analyte	Result	Reporting Limit	Dilut	tion Prepared	Analyzed	Notes
Analyte	Kesuit	Limit	Dilut	non Prepared	Analyzed	notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2402021
Benzene	ND	0.0250	1	01/09/24	01/11/24	
Ethylbenzene	ND	0.0250	1	01/09/24	01/11/24	
Toluene	ND	0.0250	1	01/09/24	01/11/24	
o-Xylene	ND	0.0250	1	01/09/24	01/11/24	
p,m-Xylene	ND	0.0500	1	01/09/24	01/11/24	
Total Xylenes	ND	0.0250	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	01/09/24	01/11/24	
Surrogate: Toluene-d8		108 %	70-130	01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2402021
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/09/24	01/11/24	
Surrogate: Bromofluorobenzene		109 %	70-130	01/09/24	01/11/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	01/09/24	01/11/24	
Surrogate: Toluene-d8		108 %	70-130	01/09/24	01/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2402027
Diesel Range Organics (C10-C28)	84.3	50.0	2	01/09/24	01/10/24	
Oil Range Organics (C28-C36)	116	100	2	01/09/24	01/10/24	
Surrogate: n-Nonane		77.3 %	50-200	01/09/24	01/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: IY		Batch: 2402032
Chloride	376	20.0	1	01/09/24	01/10/24	



Matador Resources, LLC.Project Name:Caviness 10 Federal #001Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo1/15/2024 2:52:18PM

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	o			1/1:	5/2024 2:52:18PN
	V	olatile Organ	ic Compo	unds by EP	A 82601	В		A	Analyst: RKS
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2402021-BLK1)							Prepared: 0	1/09/24 Analy	yzed: 01/10/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			
LCS (2402021-BS1)							Prepared: 0	1/09/24 Analy	yzed: 01/10/24
Benzene	2.64	0.0250	2.50		106	70-130			
Ethylbenzene	2.70	0.0250	2.50		108	70-130			
Toluene	2.66	0.0250	2.50		106	70-130			
o-Xylene	2.71	0.0250	2.50		108	70-130			
p,m-Xylene	5.41	0.0500	5.00		108	70-130			
Total Xylenes	8.12	0.0250	7.50		108	70-130			
Surrogate: Bromofluorobenzene	0.563		0.500		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.537		0.500		107	70-130			
Matrix Spike (2402021-MS1)				Source:	E401020-	24	Prepared: 0	1/09/24 Analy	yzed: 01/10/24
Benzene	2.71	0.0250	2.50	ND	108	48-131			
Ethylbenzene	2.71	0.0250	2.50	ND	109	45-135			
Toluene	2.65	0.0250	2.50	ND	106	48-130			
o-Xylene	2.81	0.0250	2.50	ND	112	43-135			
o,m-Xylene	5.57	0.0500	5.00	ND	111	43-135			
Total Xylenes	8.38	0.0250	7.50	ND	112	43-135			
Surrogate: Bromofluorobenzene	0.570		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			
Matrix Spike Dup (2402021-MSD1)				Source:	E401020-	24	Prepared: 0	1/09/24 Analy	yzed: 01/10/24
Benzene	2.68	0.0250	2.50	ND	107	48-131	1.09	23	
Ethylbenzene	2.71	0.0250	2.50	ND	109	45-135	0.0368	27	
Toluene	2.68	0.0250	2.50	ND	107	48-130	0.996	24	
o-Xylene	2.74	0.0250	2.50	ND	110	43-135	2.39	27	
p,m-Xylene	5.56	0.0500	5.00	ND	111	43-135	0.261	27	
Total Xylenes	8.30	0.0250	7.50	ND	111	43-135	0.971	27	
Surrogate: Bromofluorobenzene	0.558		0.500		112	70-130			
6	0.461		0.500		02.1	70 120			

0.500

0.500

92.1

107

70-130

70-130

0.461

0.535

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Matador Resources, LLC.Project Name:Caviness 10 Federal #001Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo1/15/20242:52:18PM

Analyst: RKS

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

	Result		LCVCI	Result	Kec	Limits	ICI D		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2402021-BLK1)							Prepared: 0	1/09/24 Aı	nalyzed: 01/10/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			
LCS (2402021-BS2)							Prepared: 0	1/09/24 Aı	nalyzed: 01/10/24
Gasoline Range Organics (C6-C10)	58.1	20.0	50.0		116	70-130			
Surrogate: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.552		0.500		110	70-130			
Matrix Spike (2402021-MS2)				Source:	E401020-2	24	Prepared: 0	1/09/24 Aı	nalyzed: 01/10/24
	54.6	20.0	50.0	Source:	E401020-2	70-130	Prepared: 0	1/09/24 Aı	nalyzed: 01/10/24
Matrix Spike (2402021-MS2) Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene	54.6 0.562	20.0	50.0 0.500				Prepared: 0	1/09/24 Aı	nalyzed: 01/10/24
Gasoline Range Organics (C6-C10)		20.0			109	70-130	Prepared: 0	1/09/24 Aı	nalyzed: 01/10/24
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene	0.562	20.0	0.500		109	70-130 70-130	Prepared: 0	1/09/24 Aı	nalyzed: 01/10/24
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4	0.562 0.472	20.0	0.500 0.500	ND	109 112 94.3	70-130 70-130 70-130 70-130			nalyzed: 01/10/24 nalyzed: 01/10/24
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.562 0.472	20.0	0.500 0.500	ND	109 112 94.3 107	70-130 70-130 70-130 70-130			
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2402021-MSD2)	0.562 0.472 0.536		0.500 0.500 0.500	ND Source:	109 112 94.3 107 E401020- 2	70-130 70-130 70-130 70-130	Prepared: 0	1/09/24 Aı	
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8 Matrix Spike Dup (2402021-MSD2) Gasoline Range Organics (C6-C10)	0.562 0.472 0.536		0.500 0.500 0.500	ND Source:	109 112 94.3 107 E401020- 2	70-130 70-130 70-130 70-130 24 70-130	Prepared: 0	1/09/24 Aı	



Matador Resources, LLC.Project Name:Caviness 10 Federal #001Reported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo1/15/2024 2:52:18PM

Dullus 171, 732 10		Troject Manage		iney Groveng	,,,				
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2402027-BLK1)							Prepared: 0	1/09/24 Anal	yzed: 01/09/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		86.0	50-200			
LCS (2402027-BS1)							Prepared: 0	1/09/24 Anal	yzed: 01/09/24
Diesel Range Organics (C10-C28)	277	25.0	250		111	38-132			
Surrogate: n-Nonane	43.7		50.0		87.4	50-200			
Matrix Spike (2402027-MS1)				Source:	E401020-2	25	Prepared: 0	1/09/24 Anal	yzed: 01/09/24
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	42.1		50.0		84.3	50-200			
Matrix Spike Dup (2402027-MSD1)				Source:	E401020-2	25	Prepared: 0	1/09/24 Anal	yzed: 01/09/24
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132	0.632	20	
Surrogate: n-Nonane	44.6		50.0		89.2	50-200			

Dallas TX, 75240	Project Manager:	Ashley Giovengo EPA 300.0/9056A	1/15/2024 2:52:18PM
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Number:	Caviness 10 Federal #001 23052-0001	Reported:

		Anions	by EPA 3	00.0/9056 <i>A</i>	1				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2402032-BLK1)							Prepared: 0	1/09/24 Ar	nalyzed: 01/09/24
Chloride	ND	20.0							
LCS (2402032-BS1)							Prepared: 0	1/09/24 Ar	nalyzed: 01/10/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2402032-MS1)				Source:	E401023-	02	Prepared: 0	1/09/24 Ar	nalyzed: 01/10/24
Chloride	319	20.0	250	64.7	102	80-120			
Matrix Spike Dup (2402032-MSD1)				Source:	E401023-	02	Prepared: 0	1/09/24 Ar	nalyzed: 01/10/24
Chloride	322	20.0	250	64.7	103	80-120	0.987	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:Caviness 10 Federal #0015400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo01/15/24 14:52

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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1	OI	1
	1	1 of

Client: I	Matador Prod	duction C	ompany.		Bill To				La	ab U	se On	ly				TA	AT.	EPA P	rogram
Project:	Caviness 1	0 Federa	1#001		Attention: Matador Productio	n Company		WO#			Job I	Num	ber .	1D	2D	3D	Standard	CWA	SDWA
Project I	Manager: As	hley Giov	vengo		Address: on file	and the second	E	401	021	9	230	550	20001				X		1 = 1
Address	: 3122 Natio	nal Parks	Hwy		City, State, Zip:	-1					Analy	sis a	nd Metho	d		0.000			RCRA
City, Sta	te, Zip: Carls	bad NM,	88220		Phone: (337)319-8398			by							T				
Phone:	575-988-005	5			Email: clinton.talley@matador	resources.con		ORO						1				State	
Email: a	giovengo@e	nsolum.	com					30/0	н	_	_	0.0		N			NM CO	UT AZ	TX
Report o	lue by:				2.0			0/0	8021	826	6010	e 300				¥	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number		TPH GRO/DRO/ORO by 8015	втех by	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
9:00	1/5/2024	S	1		FS02 - 2.5'									X					
9:03	1/5/2024	S	1		FS03 - 2.5'	2								Х					
9:05	1/5/2024	S	1		FS05 - 1.5'	3								х					
9:12	1/5/2024	S	1		FS06 - 1.5'	4								X					
9:14	1/5/2024	S	1		FS07 - 1.5'	5								х					
9:30	1/5/2024	S	1		SW01 - 0-2.5'	6								х					
9:34	1/5/2024	S	1	7	SW02 - 0-2.5'	7								Х					
Addition	al Instructio	ns: Ple	ase CC: cl	ourton@enso	lum.com, agiovengo@ensolum.com	, chadhmilton	@ei	nsolu	m.co	m, e	haft(@en:	solum.co	m					
2000				y of this sample. I	am aware that tampering with or intentionally mis	labelling the sampl	e loca	tion,			1000		and the same of th				eceived on ice the da less than 6 °C on sub		pled or
Relinquish	ed by: (Signatu	re)	Date 01/	108/24 11	Received by: (Signature)	Date 1-80	24	Time	15		Rece	eivec	I on ice:		ab U	se On	ly		
mich	ed by: (Signatur	myls	Date		625 Contraw Misso	1-8-	-4		700	0	T1			<u>T2</u>			<u>T3</u>		
Relinguish	ed by: (Signatur	re) (Date !~	8-24 Z	Received by: (Signature)	Date 1-9-	24	Time	54	5	AVG	Ten	np °C	4					
	rix: S - Soil, Sd - S		dge, A - Aqu	eous, O - Other									, ag - amb						
					inless other arrangements are made. Hazard									ent e	xpens	e. The	report for the a	inalysis of t	he above



envirotechia

Page 104 of 116

Printed: 1/9/2024 2:08:24PM

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:	01/09/24	08:45		Work Order ID:	E401026
Phone:	(972) 371-5200	Date Logged In:	01/09/24	09:45		Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	01/15/24	17:00 (4 day TAT)			
	G . 1 (GOG)						
	Custody (COC)						
	e sample ID match the COC?	. 1 . 1	Yes				
	e number of samples per sampling site location man	tch the COC	Yes				
	imples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>ourier</u>		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were al	l samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes			Comment	ts/Resolution
Sample T	urn Around Time (TAT)			[
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	· •						
	ample cooler received?		Yes				
	was cooler received in good condition?		Yes				
•	-						
	e sample(s) received intact, i.e., not broken?		Yes				
	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 risible ice, record the temperature. Actual sample	e received w/i 15	Yes				
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				
			NA				
	trip blank (TB) included for VOC analyses?	0					
	on-VOC samples collected in the correct containers'		Yes				
	appropriate volume/weight or number of sample contain	ners conected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info ample ID?	ттаноп:	Yes				
	ate/Time Collected?		Yes				
	ollectors name?		Yes				
Sample P	reservation						
21. Does t	the COC or field labels indicate the samples were pr	reserved?	No				
	mple(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved n	netals?	No				
Multinha	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	se?	No				
	does the COC specify which phase(s) is to be analy		NA				
•		yzea:	NA				
	act Laboratory						
	imples required to get sent to a subcontract laborato	•	No				
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab	: NA		
Client In	struction						
							0

Date



APPENDIX F

Email Correspondence

From: Ashley Giovengo

To: <u>clinton.talley@matadorresources.com</u>; <u>Jason Touchet</u>

Cc: <u>Chad Hamilton</u>; <u>Cole Burton</u>; <u>Ethan Haft</u>

Subject: 48-hour Confirmation Sampling Notification Email - Matador - Toque State Com - Incident Number

nAPP2332850054

Date: Wednesday, December 27, 2023 8:46:59 AM

Attachments: image001.png image002.png

image003.png image004.png

Hello,

We intend to collect confirmation samples at Matador Production Company's Caviness 10 Federal #1 (Incident Number nAPP2332850054) on Friday, December 29th.

Please let us know if you will be onsite to oversee the sampling process.

Thanks,

The total sampling area is 1618 sq ft. Time to commence is 10:00 am MST. Estimated number of samples is 9.



Attachments:

From: Ashley Giovengo

To: clinton.talley@matadorresources.com Cc: Cole Burton; Chad Hamilton; Ethan Haft

Subject: 48-hour Confirmation Sampling Notification Email - Caviness

Date: Friday, December 29, 2023 1:23:28 PM image001.png

> image002.png image003.png image004.png

Hello,

We intend to collect confirmation samples at Matador Production Company's Caviness 10 Federal #1 (Incident Number nAPP2332850054) on Tuesday, January 2nd.

Please let us know if you will be onsite to oversee the sampling process.

Thanks,

The total sampling area is 1618 sq ft. Time to commence is 10:00 am MST. Estimated number of samples is 9.



From: Ashley Giovengo
To: Chad Hamilton

Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 299191

Date: Tuesday, January 16, 2024 8:46:45 AM

Attachments: image001.png

image002.png image003.png image004.png



Ashley Giovengo

Senior Engineer 575-988-0055 Ensolum, LLC

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

Sent: Tuesday, January 2, 2024 4:51 PM

To: Ashley Giovengo <agiovengo@ensolum.com>; Jason Touchet

<jason.touchet@matadorresources.com>

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

299191

[**EXTERNAL EMAIL**]

Caviness 10 Fed 1 sampling notification.

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

Sent: Tuesday, January 2, 2024 16:50

To: Clinton Talley < <u>clinton.talley@matadorresources.com</u>>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 299191

EXTERNAL EMAIL

To whom it may concern (c/o Clint Talley for MATADOR PRODUCTION COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2332850054.

The sampling event is expected to take place:

When: 01/05/2024 @ 10:00

Where: I-10-18S-33E 0 FNL 0 FEL (32.759382,-103.643465)

Additional Information: N/A

Additional Instructions: 32.75938° N, 103.64346° W

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

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

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

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

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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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 307350

QUESTIONS

Operator:		OGRID:
	MATADOR PRODUCTION COMPANY	228937
	One Lincoln Centre	Action Number:
	Dallas, TX 75240	307350
		Action Type:
		[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2332850054
Incident Name	NAPP2332850054 CAVINESS 10 FEDERAL #001 @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CAVINESS 10 FEDERAL #001
Date Release Discovered	11/24/2023
Surface Owner	Private

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

Nature and Volume of Release			
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.		
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Water Tank Produced Water Released: 20 BBL Recovered: 13 BBL Lost: 7 BBL.		
Is the concentration of chloride in the produced water >10,000 mg/l	Yes		
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)	Tank overflowed into containment.		

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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 307350

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	1 E, INIVI 07 303
QUESTI	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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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	afety 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 o ed 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 a	knowledge and understand that pursuant to OCD rules and regulations all operators are required uses 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 to 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: Jason Touchet Title: EHS Field Rep

Email: jason.touchet@matadorresources.com

Date: 01/24/2024

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QUESTIONS, Page 3

Action 307350

QUESTIONS (continued)

Operator:		OGRID:
	MATADOR PRODUCTION COMPANY	228937
	One Lincoln Centre	Action Number:
	Dallas, TX 75240	307350
		Action Type:
		[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (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 ½ and 1 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)	
Any other fresh water well or spring	Greater than 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between ½ and 1 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	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 ti	nat apply or are indicated. This information must be provided t	o 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 de	monstrating the lateral and vertical extents of soil contamination	on 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	al extents of contamination been fully delineated	Yes
Was this release entirely c	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	25100
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	2570
GRO+DRO	(EPA SW-846 Method 8015M)	1080
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	NMAC unless the site characterization report includes complete telephone 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 wi	Il the remediation commence	01/24/2074
On what date will (or did) to	he final sampling or liner inspection occur	01/05/2024
On what date will (or was)	the remediation complete(d)	01/05/2024
What is the estimated surfa	ace area (in square feet) that will be reclaimed	227
What is the estimated volu	me (in cubic yards) that will be reclaimed	16.7
What is the estimated surfa	ace area (in square feet) that will be remediated	1618
What is the estimated volume (in cubic yards) that will be remediated		67
These estimated dates and measu	rements are recognized to be the best guess or calculation at t	the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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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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 307350

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	307350
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	Not answered.	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Yes	
What is the name of the NMED facility	R360	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: jason.touchet@matadorresources.com

Date: 01/24/2024

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

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

QUESTIONS, Page 5

Action 307350

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY	OGRID: 228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	307350
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	,
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each o	of the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Spill area is around pipelines and equipment that are currently in use containment that holds a produced water storage tank, a water transfer pump, and a separator for complete remediation this equipment would have to be removed.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	225
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	16.7
	intely under or around production equipment such as production tanks, wellheads and pipelines where In may be deferred with division written approval until the equipment is removed during other operations, or when
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-025-29849 CAVINESS 10 FEDERAL #001
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed en which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
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: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com

Date: 01/24/2024

District I
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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 307350

QUESTIONS (continued)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	307350
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	299191	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/05/2024	
What was the (estimated) number of samples that were to be gathered	9	
What was the sampling surface area in square feet	1618	

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	No	

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CONDITIONS

Action 307350

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	307350
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created	Condition	Condition
Ву		Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	3/29/2024