ENSOLUM

July 3, 2024

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

Re: Remediation Work Plan
George Well Pad
Incident Numbers nAPP2333038378
Eddy County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Remediation Work Plan* (RWP) to document assessment and soil sampling activities performed at the George Well Pad (Site) in Unit E, Section 14, Township 24 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The purpose of the Site assessment and soil sampling activities was to address impacted and waste-containing soil resulting from a 4-inch butterfly valve. Matador is submitting this RWP, describing analytical results from soil sampling activities associated with Incident Number nAPP2333038378 and proposing additional delineation soil sampling, excavation, and confirmation soil sampling activities at the Site prior to submitting a *Closure Request*.

The New Mexico Oil Conservation Division (NMOCD) approved a 90-day extension on January 31, 2024, in order for Matador to establish depth to water within a half-mile radius of the Site. A second 90-day extension was requested due to ongoing drilling operations at the Site. The second extension was approved on April 22, 2024, and the current deadline for submitting a remediation work plan or closure report is July 22, 2024. John Scarborough Drilling, Inc. completed the depth to water determination on June 10, 2024, and depth to groundwater was determined to be greater than 55 feet below ground surface (bgs).

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.21286°, -104.05189°) and is associated with oil and gas exploration and production operations on Private Land.

On November 26, 2023, a malfunctioning 4-inch butterfly valve resulted in the release of over 46 barrels (bbls) of drilling mud onto the caliche pad; 450 bbls were recovered. Matador reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on November 28, 2023 (Appendix A). The release was assigned Incident Number nAPP2333038378.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization, see Appendix A. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04828 POD 1, located approximately 0.22 miles northeast of the Site. The boring was drilled to investigate depth to water for the Site on June 10, 20214. The well was drilled to a total depth of 55 feet below ground surface (bgs). The boring was allowed to equilibrate for at least 72 hours to allow for potentially slow in-filling groundwater to collect. Following the waiting period, groundwater was not encountered, and it has been determined that groundwater is greater than 55 feet bgs. All wells used for depth to groundwater determination are presented in Figure 1. The referenced well log and record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 686 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified in Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On December 5 and December 6, 2023, Ensolum personnel were onsite to begin delineation sampling of the on-pad spill area. Preliminary assessment soil samples (SS01 through SS08) were collected at ground surface to verify the lateral extent of the release area. Four pothole samples, (PH01 through PH04) were advanced via backhoe at depths ranging from ground surface to 4 feet bgs to verify the vertical extent of the release area.

Samples were field screened for chloride utilizing Hach® chloride QuanTab® test strips and MOHR method titration. Preliminary assessment soil samples and the four pothole locations are depicted on Figure 2. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. A photographic log including delineation and excavation activities can be found in Appendix D.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Laboratory Analysis (Envirotech) in Farmington, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01, SS02, SS05, and SS08, collected at ground surface were in compliance with the strictest Closure Criteria and with the Site Closure Criteria. Lateral delineation soil samples SS03, SS04, SS06 and SS07 exceeded the strictest Closure Criteria per NMOCD Table I at ground surface; however, all COC concentrations were in compliance with the Site Closure Criteria. Discrete delineation soil samples collected from potholes PH01 and PH02 exceed the strictest Closure Criteria at 1-foot bgs and 4 feet bgs respectively and discrete delineation samples from PH01 exceeded the Site Closure Criteria for TPH at ground surface. Discrete delineation soil samples collected from potholes PH03 and PH04 were in compliance with the strictest Closure Criteria at ground surface and 1-foot bgs; discrete delineation soil samples collected from all four potholes (PH01 through PH04) were all in compliance with the Site Closure Criteria. Laboratory analytical results for delineation soil samples are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix E.

PROPOSED REMEDIATION WORK PLAN

The results of the delineation soil sampling suggest soil containing elevated concentrations of chloride exist in the release area, which measures approximately 8,698 square feet in size. The on-pad release area will require a surface scrape via mechanical equipment once the drilling rig onsite has been rigged down and relocated. Based on laboratory analytical results from delineation soil sampling activities, Ensolum personnel will need to return to the Site in order to recollect lateral delineation soil samples SS03, SS04, SS06, and SS07 and to advance potholes PH01 and PH02 in accordance with the strictest Closure Criteria. Lateral delineation soil samples SS01, SS02, SS05, and SS08 collected at ground surface and discrete delineation soil samples collected from potholes PH03 and PH04 at depths ranging ground surface to 4 feet bgs indicated all COC's were in compliance with the strictest Closure Criteria and with the Site Closure Criteria. Matador proposes excavation of the impacted soil and Ensolum estimates approximately 161 cubic yards of soil will be excavated from the impacted area.

Matador proposes to complete the following remediation activities:

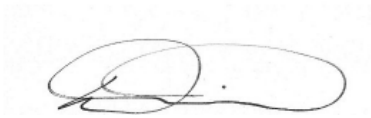
- Complete lateral delineation in the vicinity of sample locations SS03, SS04, SS06, and SS07 and complete vertical delineation in potholes PH01 and PH02 to the strictest Closure Criteria per NMOCD Table I.
- A surface scrape of the impacted area on-pad to a depth of 0.5 feet bgs or until field screening of soil indicates the floor of the excavation will be in compliance with the Site Closure Criteria.
- Confirmation samples will be collected at a variance frequency of one five-point composite soil sample every 400 square feet from the floor of the excavation and at a frequency of every 200 square feet from the sidewalls of the excavation. Based on the areal extent of the on-pad excavation area, the variance request will be equally protective of human health, the environment, and groundwater since depth to ground water is reasonably estimated to be greater than 55 feet bgs, there are no other sensitive receptors in the vicinity of the Site, and impacted and waste-containing soil will be adequately delineated to demonstrate compliance with an expanded frequency of confirmation sampling.
- An estimated 161 cubic yards of impacted soil will be excavated. The excavated soil will be transferred to a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions.

Matador will complete the proposed soil sampling activities within 180 days of the date of approval of this Work Plan by the NMOCD or as the drilling schedule allows.

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

Sincerely,
Ensolum, LLC

Ashley Giovengo
Senior Scientist



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

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Proposed Excavation Extent
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Appendix A	Form C-141
Appendix B	Well Log and Record
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Correspondence

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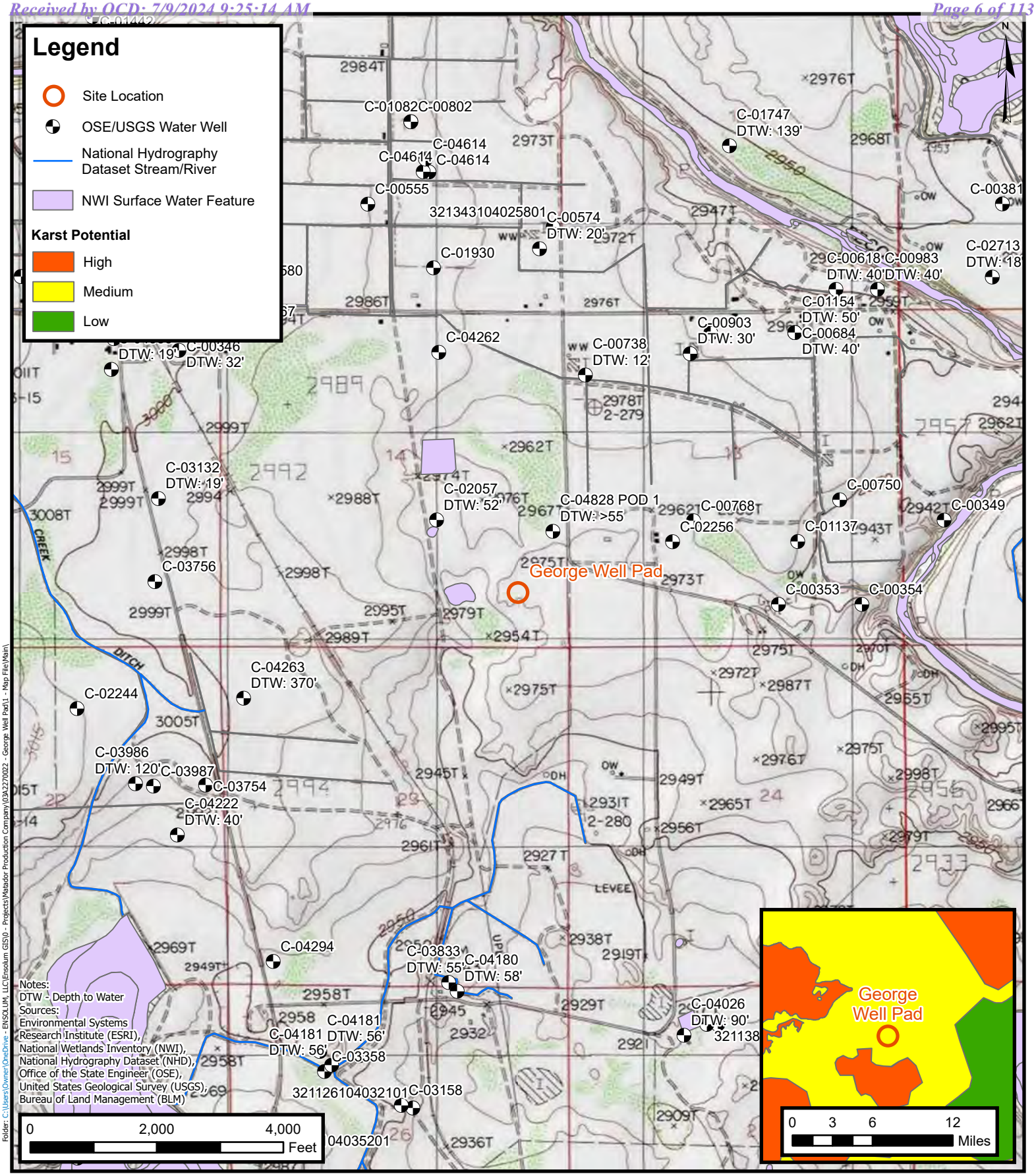
FIGURES



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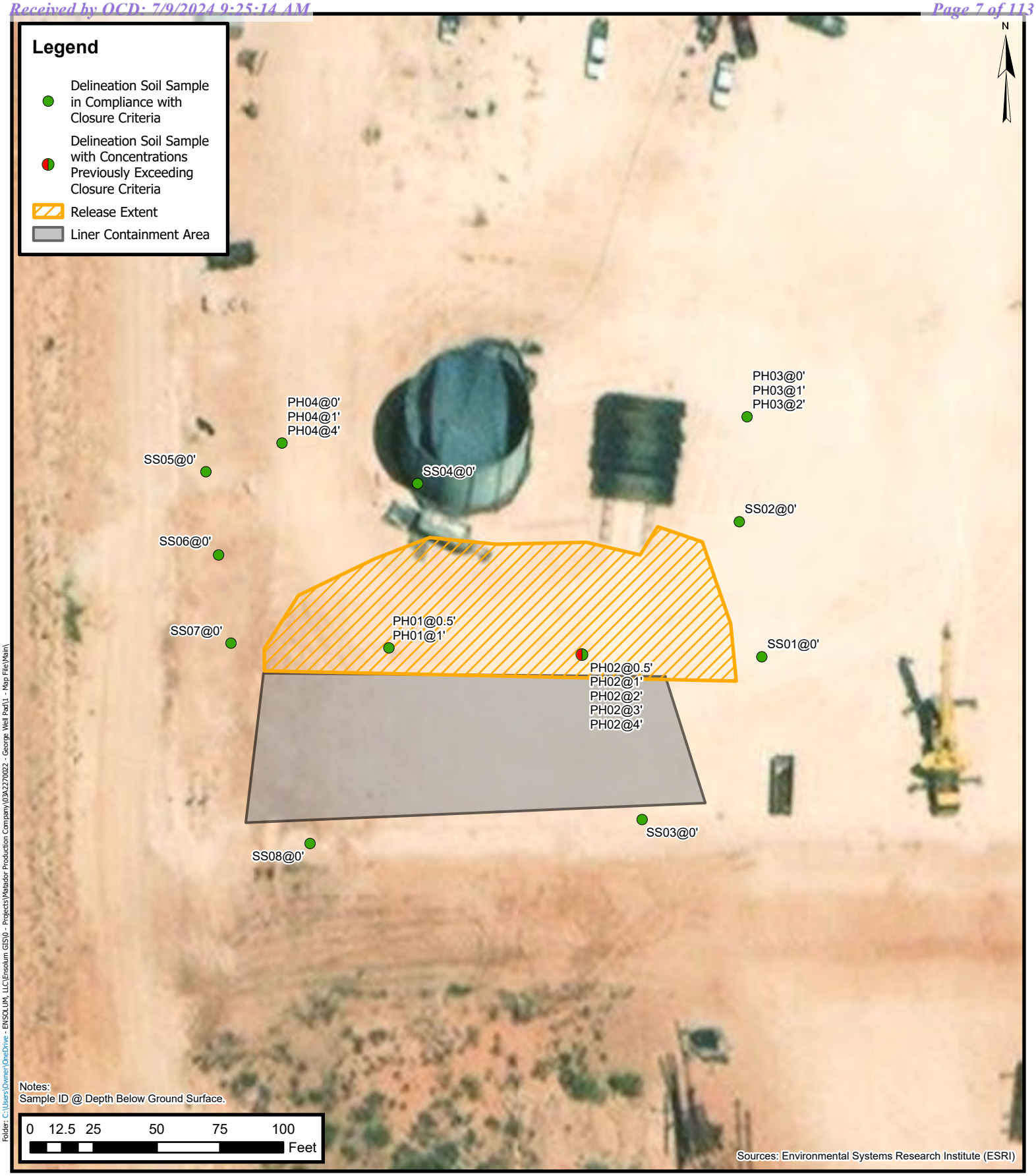
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

Matador Production Company
George Well Pad
Incident Number: nAPP2333038378
Unit E, Section 14, T 24S, R 28E
Eddy County, New Mexico

FIGURE 1



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Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Sample Locations

Matador Production Company
George Well Pad
Incident Number: nAPP2333038378
Unit E, Section 14, T 24S, R 28E
Eddy County, New Mexico

FIGURE 2

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
George Well Pad
Matador Production Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**10,000**
Delineation Soil Samples										
SS01	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	183
SS02	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	391
SS03	12/6/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	610
SS04	12/6/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	634
SS05	12/6/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	248
SS06	12/6/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	3,870
SS07	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	834
SS08	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	194
PH01	12/5/2023	0.5	<0.0250	<0.0250	<20.0	60.6	<50.0	<25.0	60.6	403
PH01	12/5/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	827
PH02	12/5/2023	0.5	<0.0250	<0.0250	<20.0	1,210	<50.0	**1,210**	1,210	1,370
PH02	12/5/2023	1	<0.0250	<0.0250	<20.0	555	<50.0	555	555	1,230
PH02	12/5/2023	2	<0.0250	<0.0250	<20.0	168	<50.0	<25.0	168	896
PH02	12/5/2023	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	572
PH02	12/5/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	765
PH03	12/5/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	381
PH03	12/5/2023	1	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	442
PH03	12/5/2023	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	454
PH04	12/5/2023	0	<0.0250	<0.0250	<20.0	95.7	<50.0	95.7	95.7	668
PH04	12/5/2023	1	<0.0250	<0.0250	<20.0	99.1	76.0	175.1	175.1	386
PH04	12/5/2023	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<200

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

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

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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	nAPP2333038378
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Matador Production Company	OGRID 228937
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # *(assigned by OCD) nAPP2333038378*
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

Location of Release Source

Latitude 32.21286 Longitude -104.05189
(NAD 83 in decimal degrees to 5 decimal places)

Site Name George Well Pad	Site Type
Date Release Discovered 11/26/2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
E	14	24S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 233.5 bbls	Volume Recovered (bbls) 225 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (describe)	Volume/Weight Released (provide units) 233.5 bbls of Diesel	Volume/Weight Recovered (provide units) 225 bbls of Diesel

Cause of Release: A 4” butterfly valve was left open, and a 50/50 mixture of Brine and Diesel was released on-pad. 450 bbls were held inside the plastic berm and recovered. 17 bbls of the mixture spilled outside of the plastic liner and impacted an area on-pad. An initial scrape of the on-pad area has been completed.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2333038378
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to NMOCD on 11/26/2023 via website.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: 11/27/2023

email: Clinton.talley@matadorresources.com Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells Date: 11/28/2023

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

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

CONDITIONS

Action 288877

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 288877
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	11/28/2023

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APPENDIX B

Well Log and Record

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1	N/A	C-04828 POD 1

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Matador Production Company	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
R347 N26th Rural Street 2nd Floor	Artesia	NM	88210

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	12	56.0	N
	LONGITUDE	104	03	00.3	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Unit E, Section 14, Township 24S, Range 28E, Eddy County, NM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1188	John Scarborough	John Scarborough Drilling Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
06/10/2024	06/10/2024	55'	55'	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	55	5.00	Soil Boring	-	-	-	-

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
			N/A		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

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

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	10	10	Sand with Gravel, light brown to tan, fine to medium with some gravel	Y ✓ N	
10	20	10	Sand with Gravel, light brown to tan, fine to medium with some gravel	Y ✓ N	
20	30	10	Sand with Gravel, light brown to tan, fine to medium with some gravel	Y ✓ N	
30	40	10	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with gra	Y ✓ N	
40	50	10	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with trac	Y ✓ N	
50	55	5	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with gra	Y ✓ N	
55	55	0	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with gra	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Scott Scarborough — Digitally signed by Scott Scarborough Date: 2024.06.26 07:04:55 -06'00'

Scott Scarborough — 06/26/2024

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

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

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APPENDIX C

Lithologic Soil Sampling Logs

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	Sample Name: PH01	Date: 12/5/2023
	Site Name: George Well Pad	
	Incident Number: nAPP2333038378	
	Job Number: 03A2270022	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Ethan Haft	Method: Back Hoe
Coordinates: 32.2126926, -104.0520252	Hole Diameter: 12 inches	Total Depth: 11 ft

Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled 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
Dry	235	NA	N	PH01	0.5	0.5	SM	Pad caliche, carbonate (limestone) clay and gravel. Light gray and powdery.
Dry	590	NA	N	PH01	1	1	SP-SM	Brown silt and clay, limestone pebbles and gravel.
Moist	1,300	NA	N	PH01		2	SW-SC	Dark brown silt and clay, moist, well sorted. Some limestone pebbles.
Moist	2,300	NA	N	PH01		3	SW-SC	Same as above
Moist	1,025	NA	N	PH01		4	SW-SC	Same as above
Moist	1,110	NA	N	PH01		5	SW-SC	Same as above
Moist	862	NA	N	PH01		6	SW-SM	Dark brown silt and clay, thinly bedded mudstone, well sorted.
Moist	1,300	NA	N	PH01		7	SW-SM	Same as above
Moist	1,300	NA	N	PH01		8	SW-SM	Same as above
Moist	862	NA	N	PH01		9	SP-SC	Dark brown silt and clay with limestone gravel, poor/moderately sorted
Moist	790	NA	N	PH01		10	SP-SC	Same as above
Moist	862	NA	N	PH01		11	SP-SC	Same as above

Total Depth @ 11 ft bgs

ENSOLUM

	Sample Name: PH02	Date: 12/5/2023
	Site Name: George Well Pad	
	Incident Number: nAPP2333038378	
	Job Number: 03A2270022	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Ethan Haft	Method: Back Hoe
Coordinates: 32.2126824, -104.0520293	Hole Diameter: 12 inches	Total Depth: 9 ft

Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled 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
Dry	1,870	NA	N	PH02	0.5	0.5	SM	Pad caliche, carbonate (limestone) clay and gravel. Off white to tan.
Dry	1,500	NA	N	PH02	1	1	SM	Pad caliche, medium brown silt. Limestone pebbles. Moderate sorting.
Dry	1,025	NA	N	PH02	2	2	SW-SM	Dark brown silt and clay. Limestone gravel. Moderate sorting.
Moist	790	NA	Y	PH02	3	3	SW-SM	Dark brown to dark gray silt and clay.Some mudstone. Moderate sorting.
Moist	620	NA	N	PH02	4	4	SW-SM	Dark brown silt and clay, moderate plasticity. Well sorted, some limestone gravel.
Moist	756	NA	N	PH02		5	SW-SM	Same as above
Moist	910	NA	N	PH02		6	SW-SM	Dark brown to reddish silt and clay. Well sorted, some limestone gravel.
Moist	620	NA	N	PH02		7	SW-SM	Same as above
Moist	1,575	NA	N	PH02		8	SW-SM	Same as above
Moist	1,810	NA	N	PH02		9	SW-SM	Same as above

Total Depth @ 9 ft bgs

ENSOLUM

	Sample Name: PH03	Date: 12/5/2023
	Site Name: George Well Pad	
	Incident Number: nAPP2333038378	
	Job Number: 03A2270022	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Ethan Haft	Method: Back Hoe
Coordinates: 32.2129411, -104.0515639	Hole Diameter: 12 inches	Total Depth: 9 ft

Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled 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
Dry	350	NA	N	PH03	0	0	SM	Pad caliche, powdery carbonate clay and pebbles. Light off white, moderate sorting.
Moist	500	NA	N	PH03	1	1	SC	Dark brown clay, high plasticity. well sorted.
Moist	440	NA	N	PH03	2	2	SW-SM	Dark brown silt and clay, low plasticity. Thinly bedded mudstone, well sorted.
Moist	830	NA	N	PH03		3	SW-SM	Same as above
Moist	1,260	NA	N	PH03		4	SW-SM	Same as above
Moist	1,260	NA	N	PH03		5	SW-SM	Dark brown silt and clay, limestone gravel. Thinly bedded mudstone, moderate sorting.
Moist	1,260	NA	N	PH03		6	SW-SM	Same as above
Moist	990	NA	N	PH03		7	SW-SM	Same as above
Moist	1,575	NA	N	PH03		8	SW-SM	Same as above

Total Depth @ 8 ft bgs

ENSOLUM

	Sample Name: PH04	Date: 12/5/2023
	Site Name: George Well Pad	
	Incident Number: nAPP2333038378	
	Job Number: 03A2270022	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Ethan Haft	Method: Back Hoe
Coordinates: 32.212916, -104.052158	Hole Diameter: 12 inches	Total Depth: 8ft

Comments: Field screening conducted with HACH Chloride Test Strips for chloride. Chloride test performed with 1:4 dilution factor of soil to distilled 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
Dry	610	NA	N	PH04	0	0	SM	Pad caliche, carbonate clay and gravel. Off white and powdery, moderate sorting.
Dry	493	NA	N	PH04	1	1	SP-SM	Pad caliche, light to dark brown silt and clay. Limestone gravel, moderate sorting.
Moist	ND	NA	N	PH04		2	SW-SC	Dark brown to reddish clay, high plasticity. Well sorted.
Moist	ND	NA	N	PH04		3	SW-SC	Dark brown to reddish clay, high plasticity. Limestone gravel, well sorted.
Moist	ND	NA	N	PH04	4	4	SW-SC	Dark brown silt and clay, thinly bedded mudstone. Well sorted.
Moist	745	NA	N	PH04		5	SM	Dark brown silt, well sorted.
Moist	1,154	NA	N	PH04		6	SM	Same as above
Moist	900	NA	N	PH04		7	SM	Same as above
Moist	820	NA	N	PH04		8	SC	Dark brown clay, well sorted, high plasticity. Limestone gravel.

Total Depth @ 8 ft bgs

ENSOLUM

APPENDIX D

Photographic Log

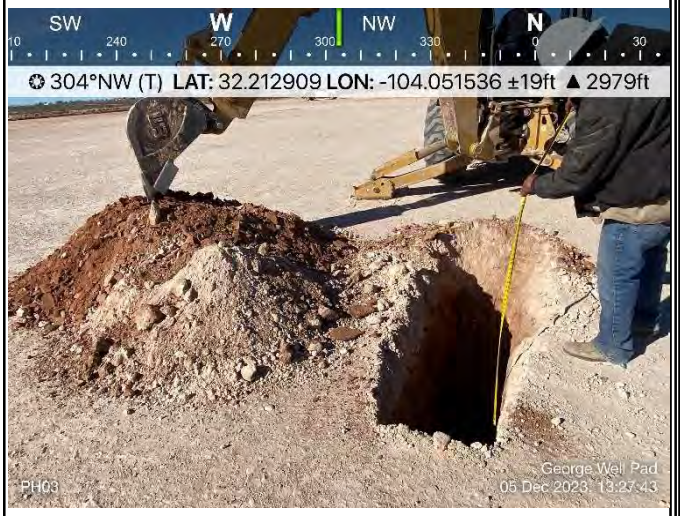
ENSOLUM

Photographic Log
Matador Production Company
George Well Pad
nAPP2333038378

Photograph 1 Date: 12/05/2023
Description: PH01; Vertical Delineation Sampling
View: North

Photograph 2 Date: 12/05/2023
Description: Release Area
View: East

Photograph 3 Date: 12/05/2023
Description: PH02; Vertical Delineation Sampling
View: Northwest

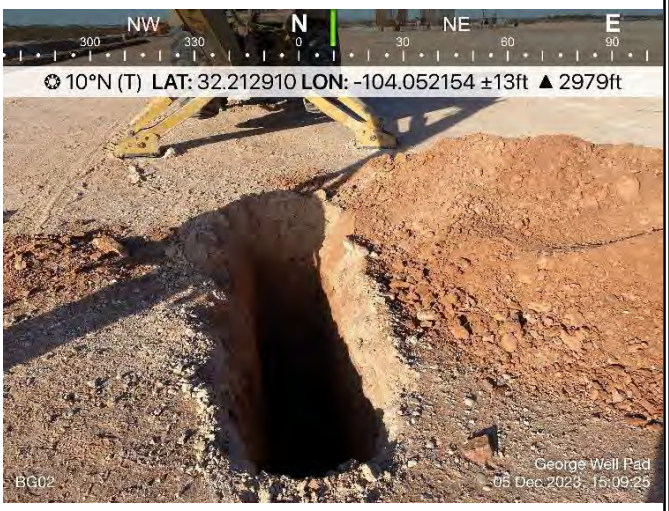


Photograph 4 Date: 12/05/2023
Description: PH03; Vertical Delineation Sampling
View: Northwest

ENSOLUM

Photographic Log
Matador Production Company
George Well Pad
nAPP2333038378

Photograph 5 Date: 12/05/2023
Description: Vertical Delineation Sampling
View: North



Photograph 6 Date: 12/05/2023
Description: Vertical Delineation Sampling
View: North

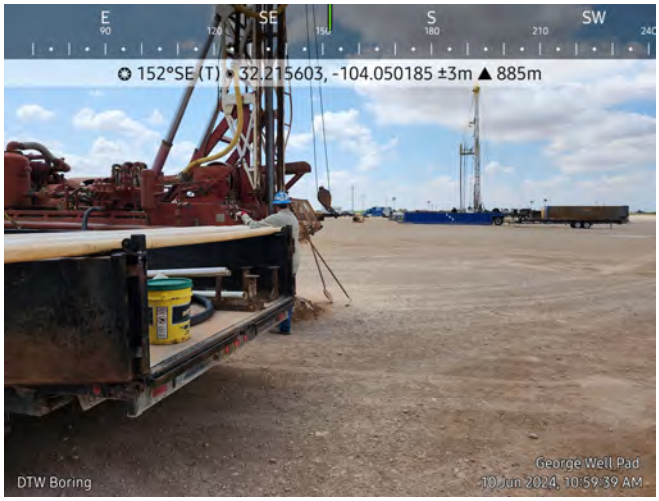
Photograph 7 Date: 12/06/2023
Description: Equipment on location
View: Southwest

Photograph 8 Date: 12/06/2023
Description: Equipment on location
View: East

ENSOLUM

Photographic Log
Matador Production Company
George Well Pad
nAPP2333038378

Photograph 9 Date: 06/10/2024
Description: Depth to Water Determination
View: East



Photograph 10 Date: 06/10/2024
Description: Depth to Water Determination
View: Southeast

Photograph 11 Date: 06/10/2024
Description: Depth to Water Determination
View: West

Photograph 12 Date: 06/10/2024
Description: Depth to Water Determination
View: Northwest

ENSOLUM

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:	George Well Pad
Work Order:	E312049
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: George Well Pad
Workorder: E312049
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: George Well Pad.

The analytical test results summarized in this report with the Project Name: George Well Pad 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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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 11:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03-0'	E312049-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH03-1'	E312049-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH03-2'	E312049-03A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 11:23:46AM

PH03-0'

E312049-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349098
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.8 %*	*70-130*	*12/08/23*	*12/12/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349098
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.8 %*	*70-130*	*12/08/23*	*12/12/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350045
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
Surrogate: n-Nonane		*81.3 %*	*50-200*	*12/13/23*	*12/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350010
Chloride	**381**	20.0	1	12/11/23	12/12/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 11:23:46AM

PH03-1'

E312049-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349098
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*	*70-130*	*12/08/23*	*12/12/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349098
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.3 %*	*70-130*	*12/08/23*	*12/12/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350045
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
Surrogate: n-Nonane		*81.8 %*	*50-200*	*12/13/23*	*12/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350010
Chloride	**442**	100	5	12/11/23	12/13/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 11:23:46AM

PH03-2'

E312049-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349098
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.2 %*	*70-130*	*12/08/23*	*12/12/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349098
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.3 %*	*70-130*	*12/08/23*	*12/12/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350045
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
Surrogate: n-Nonane		*80.5 %*	*50-200*	*12/13/23*	*12/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350010
Chloride	**454**	200	10	12/11/23	12/13/23	

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 11:23:46AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2349098-BLK1)									Prepared: 12/08/23 Analyzed: 12/12/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.16*		*8.00*		*89.4*	*70-130*			
LCS (2349098-BS1)									Prepared: 12/08/23 Analyzed: 12/12/23
Benzene	4.77	0.0250	5.00		95.4	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.26*		*8.00*		*90.8*	*70-130*			
Matrix Spike (2349098-MS1)				**Source: E312044-27**					Prepared: 12/08/23 Analyzed: 12/12/23
Benzene	4.69	0.0250	5.00	ND	93.7	54-133			
Ethylbenzene	4.94	0.0250	5.00	ND	98.9	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.33*		*8.00*		*91.6*	*70-130*			
Matrix Spike Dup (2349098-MSD1)				**Source: E312044-27**					Prepared: 12/08/23 Analyzed: 12/12/23
Benzene	4.36	0.0250	5.00	ND	87.1	54-133	7.30	20	
Ethylbenzene	4.64	0.0250	5.00	ND	92.8	61-133	6.38	20	
Toluene	4.68	0.0250	5.00	ND	93.6	61-130	6.74	20	
o-Xylene	4.77	0.0250	5.00	ND	95.3	63-131	6.63	20	
p,m-Xylene	9.58	0.0500	10.0	ND	95.8	63-131	6.23	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.6	63-131	6.36	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.29*		*8.00*		*91.1*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 11:23:46AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2349098-BLK1)									Prepared: 12/08/23 Analyzed: 12/12/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.09*		*8.00*		*88.6*	*70-130*			
LCS (2349098-BS2)									Prepared: 12/08/23 Analyzed: 12/12/23
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0		83.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.24*		*8.00*		*90.5*	*70-130*			
Matrix Spike (2349098-MS2)				**Source: E312044-27**					Prepared: 12/08/23 Analyzed: 12/12/23
Gasoline Range Organics (C6-C10)	41.9	20.0	50.0	ND	83.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.21*		*8.00*		*90.1*	*70-130*			
Matrix Spike Dup (2349098-MSD2)				**Source: E312044-27**					Prepared: 12/08/23 Analyzed: 12/12/23
Gasoline Range Organics (C6-C10)	42.6	20.0	50.0	ND	85.2	70-130	1.69	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.24*		*8.00*		*90.5*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 11:23:46AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350045-BLK1)									Prepared: 12/13/23 Analyzed: 12/14/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*42.2*		*50.0*		*84.4*	*50-200*			
LCS (2350045-BS1)									Prepared: 12/13/23 Analyzed: 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: E312048-03**					Prepared: 12/13/23 Analyzed: 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: 12/13/23 Analyzed: 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*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 11:23:46AM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350010-BLK1)									Prepared: 12/11/23 Analyzed: 12/12/23
Chloride	ND	20.0							
LCS (2350010-BS1)									Prepared: 12/11/23 Analyzed: 12/12/23
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2350010-MS1)				**Source: E312047-03**					Prepared: 12/11/23 Analyzed: 12/12/23
Chloride	250	20.0	250	ND	99.9	80-120			
Matrix Spike Dup (2350010-MSD1)				**Source: E312047-03**					Prepared: 12/11/23 Analyzed: 12/12/23
Chloride	252	20.0	250	ND	101	80-120	0.999	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 11:23

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.

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**
Project: George Well Pad	Attention: Matador Production Company
Project Manager: Ashley Giovengo	Address: on file
Address: 3122 National Parks Hwy	City, State, Zip:
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only: Lab WO# E312049 | Job Number 23052-0001

TAT: 1D | 2D | 3D | Standard: X

EPA Program: CWA | SDWA | RCRA

State: NM: x | CO | UT | AZ | TX

Analysis and Method: TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | GDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
13:16	12/5/2023	Soil	1	PH03 - 0'	1	X	
13:17	12/5/2023	Soil	1	PH03 - 1'	2	X	
13:20	12/5/2023	Soil	1	PH03 - 2'	3	X	

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com - samples kept on ice

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Ethan Haft	12/7/23	0700	Michelle Garcia	12-7-23	1130
Michelle Garcia	12-7-23	1730	Andrew Hobbs	12-8-23	0700
Andrew Hobbs	12-8-23	1300		12-8-23	1300

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

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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

envirotech

Envirotech Analytical Laboratory

Printed: 12/11/2023 12:28:28PM

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:	E312049
Phone:	(972) 371-5200	Date Logged In:	12/08/23 13:31	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/18/23 17:00 (6 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Comments/Resolution

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	George Well Pad
Work Order:	E312050
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: George Well Pad
Workorder: E312050
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: George Well Pad.

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

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

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

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

Respectfully,

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

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

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

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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 13:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH04-0'	E312050-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH04-1'	E312050-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH04-4'	E312050-03A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 1:51:44PM

PH04-0'

E312050-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2349099
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.5 %*	*70-130*	*12/08/23*	*12/12/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2349099
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.1 %*	*70-130*	*12/08/23*	*12/12/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350043
Diesel Range Organics (C10-C28)	**95.7**	25.0	1	12/12/23	12/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/14/23	
Surrogate: n-Nonane		*94.2 %*	*50-200*	*12/12/23*	*12/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2350011
Chloride	**668**	20.0	1	12/11/23	12/12/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 1:51:44PM

PH04-1'

E312050-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2349099
Benzene	ND	0.0250	1	12/08/23	12/12/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/12/23	
Toluene	ND	0.0250	1	12/08/23	12/12/23	
o-Xylene	ND	0.0250	1	12/08/23	12/12/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/12/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/12/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*12/08/23*	*12/12/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2349099
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.0 %*	*70-130*	*12/08/23*	*12/12/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350043
Diesel Range Organics (C10-C28)	**99.1**	25.0	1	12/12/23	12/14/23	
Oil Range Organics (C28-C36)	**76.0**	50.0	1	12/12/23	12/14/23	
Surrogate: n-Nonane		*97.0 %*	*50-200*	*12/12/23*	*12/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2350011
Chloride	**386**	200	10	12/11/23	12/12/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 1:51:44PM

PH04-4'

E312050-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2349099
Benzene	ND	0.0250	1	12/08/23	12/13/23	
Ethylbenzene	ND	0.0250	1	12/08/23	12/13/23	
Toluene	ND	0.0250	1	12/08/23	12/13/23	
o-Xylene	ND	0.0250	1	12/08/23	12/13/23	
p,m-Xylene	ND	0.0500	1	12/08/23	12/13/23	
Total Xylenes	ND	0.0250	1	12/08/23	12/13/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*12/08/23*	*12/13/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2349099
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/08/23	12/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*12/08/23*	*12/13/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350043
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/14/23	
Surrogate: n-Nonane		*96.4 %*	*50-200*	*12/12/23*	*12/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2350011
Chloride	ND	200	10	12/11/23	12/12/23	

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 1:51:44PM

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2349099-BLK1)									Prepared: 12/08/23 Analyzed: 12/12/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.78*		*8.00*		*97.3*	*70-130*			
LCS (2349099-BS1)									Prepared: 12/08/23 Analyzed: 12/12/23
Benzene	4.98	0.0250	5.00		99.6	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.0	70-130			
Toluene	4.97	0.0250	5.00		99.3	70-130			
o-Xylene	4.95	0.0250	5.00		99.0	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		99.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.74*		*8.00*		*96.8*	*70-130*			
Matrix Spike (2349099-MS1)				**Source: E312047-07**					Prepared: 12/08/23 Analyzed: 12/12/23
Benzene	5.13	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133			
Toluene	5.10	0.0250	5.00	ND	102	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.71*		*8.00*		*96.3*	*70-130*			
Matrix Spike Dup (2349099-MSD1)				**Source: E312047-07**					Prepared: 12/08/23 Analyzed: 12/12/23
Benzene	5.57	0.0250	5.00	ND	111	54-133	8.23	20	
Ethylbenzene	5.48	0.0250	5.00	ND	110	61-133	8.78	20	
Toluene	5.55	0.0250	5.00	ND	111	61-130	8.42	20	
o-Xylene	5.53	0.0250	5.00	ND	111	63-131	8.08	20	
p,m-Xylene	11.2	0.0500	10.0	ND	112	63-131	8.63	20	
Total Xylenes	16.7	0.0250	15.0	ND	111	63-131	8.44	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.82*		*8.00*		*97.8*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 1:51:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2349099-BLK1)									Prepared: 12/08/23 Analyzed: 12/12/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.10*		*8.00*		*88.8*	*70-130*			
LCS (2349099-BS2)									Prepared: 12/08/23 Analyzed: 12/12/23
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0		91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.16*		*8.00*		*89.5*	*70-130*			
Matrix Spike (2349099-MS2)				**Source: E312047-07**					Prepared: 12/08/23 Analyzed: 12/12/23
Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.98*		*8.00*		*87.2*	*70-130*			
Matrix Spike Dup (2349099-MSD2)				**Source: E312047-07**					Prepared: 12/08/23 Analyzed: 12/12/23
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.7	70-130	11.7	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.89*		*8.00*		*86.1*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 1:51:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350043-BLK1)									Prepared: 12/12/23 Analyzed: 12/14/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.5*		*50.0*		*99.1*	*50-200*			
LCS (2350043-BS1)									Prepared: 12/12/23 Analyzed: 12/14/23
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
Surrogate: n-Nonane	*51.4*		*50.0*		*103*	*50-200*			
Matrix Spike (2350043-MS1)				**Source: E312063-02**					Prepared: 12/12/23 Analyzed: 12/14/23
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	*54.0*		*50.0*		*108*	*50-200*			
Matrix Spike Dup (2350043-MSD1)				**Source: E312063-02**					Prepared: 12/12/23 Analyzed: 12/14/23
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132	6.93	20	
Surrogate: n-Nonane	*51.8*		*50.0*		*104*	*50-200*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 1:51:44PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350011-BLK1)									Prepared: 12/11/23 Analyzed: 12/12/23
Chloride	ND	20.0							
LCS (2350011-BS1)									Prepared: 12/11/23 Analyzed: 12/12/23
Chloride	245	20.0	250		98.1	90-110			
Matrix Spike (2350011-MS1)				**Source: E312050-03**					Prepared: 12/11/23 Analyzed: 12/12/23
Chloride	353	200	250	ND	141	80-120			M5
Matrix Spike Dup (2350011-MSD1)				**Source: E312050-03**					Prepared: 12/11/23 Analyzed: 12/12/23
Chloride	359	200	250	ND	144	80-120	1.64	20	M5

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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 13:51

M5	The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**	Lab Use Only	TAT / EPA Program
Project: George Well Pad	Attention: Matador Production Company	Lab WO# E312050	Job Number 23052-0001
Project Manager: Ashley Giovengo	Address: on file	1D 2D 3D Standard: X	CWA / SDWA / RCRA
Address: 3122 National Parks Hwy	City, State, Zip:		
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398		
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com		
Email: agiovengo@ensolum.com			
Report due by:			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State (NM CO UT AZ TX)	Remarks
14:42	12/5/2023	Soil	1	PH04 - 0'	1						X		NM: X	
14:45	12/5/2023	Soil	1	PH04 - 1'	2						X			
14:49	12/5/2023	Soil	1	PH04 - 4'	3						X			

Analysis and Method

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com - samples kept on ice

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Ethan Haft	12/7/23	0700	Michelle Leigh	12-7-23	1130
Michelle Leigh	12-7-23	1730	Andrew Moss	12.8.23	0700
Andrew Moss	12.8.23	1300		12.8.23	1300

Lab Use Only — Received on ice: (Y) N — T1 ____ T2 ____ T3 ____ — AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other ____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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

envirotech

Envirotech Analytical Laboratory

Printed: 12/11/2023 12:33:32PM

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:	E312050
Phone:	(972) 371-5200	Date Logged In:	12/08/23 13:38	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Comments/Resolution

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

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:	George Well Pad
Work Order:	E312053
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: George Well Pad
Workorder: E312053
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: George Well Pad.

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

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

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

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

Respectfully,

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

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

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

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Southern New Mexico Area

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ljarboe@envirotech-inc.com

Michelle Golzales
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

Sample Summary

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 16:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01-0.5'	E312053-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH01-1'	E312053-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 4:29:34PM

PH01-0.5'

E312053-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/14/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/14/23	
Toluene	ND	0.0250	1	12/11/23	12/14/23	
o-Xylene	ND	0.0250	1	12/11/23	12/14/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/14/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*12/11/23*	*12/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.0 %*	*70-130*	*12/11/23*	*12/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350045
Diesel Range Organics (C10-C28)	**60.6**	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
Surrogate: n-Nonane		*84.1 %*	*50-200*	*12/13/23*	*12/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350035
Chloride	**403**	20.0	1	12/12/23	12/15/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 4:29:34PM

PH01-1'

E312053-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/14/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/14/23	
Toluene	ND	0.0250	1	12/11/23	12/14/23	
o-Xylene	ND	0.0250	1	12/11/23	12/14/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/14/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.1 %*	*70-130*	*12/11/23*	*12/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.0 %*	*70-130*	*12/11/23*	*12/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350045
Diesel Range Organics (C10-C28)	ND	25.0	1	12/13/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/13/23	12/15/23	
Surrogate: n-Nonane		*84.8 %*	*50-200*	*12/13/23*	*12/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350035
Chloride	**827**	200	10	12/12/23	12/15/23	

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 4:29:34PM

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350004-BLK1)									Prepared: 12/11/23 Analyzed: 12/14/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.62*		*8.00*		*95.2*	*70-130*			
LCS (2350004-BS1)									Prepared: 12/11/23 Analyzed: 12/14/23
Benzene	4.84	0.0250	5.00		96.8	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.3	70-130			
Toluene	4.84	0.0250	5.00		96.9	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
p,m-Xylene	9.65	0.0500	10.0		96.5	70-130			
Total Xylenes	14.4	0.0250	15.0		96.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.62*		*8.00*		*95.2*	*70-130*			
Matrix Spike (2350004-MS1)				**Source: E312053-02**					Prepared: 12/11/23 Analyzed: 12/14/23
Benzene	4.85	0.0250	5.00	ND	96.9	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.6	61-133			
Toluene	4.86	0.0250	5.00	ND	97.1	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.8	63-131			
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.63*		*8.00*		*95.4*	*70-130*			
Matrix Spike Dup (2350004-MSD1)				**Source: E312053-02**					Prepared: 12/11/23 Analyzed: 12/14/23
Benzene	4.74	0.0250	5.00	ND	94.7	54-133	2.29	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.4	61-133	2.41	20	
Toluene	4.74	0.0250	5.00	ND	94.9	61-130	2.32	20	
o-Xylene	4.67	0.0250	5.00	ND	93.4	63-131	2.55	20	
p,m-Xylene	9.44	0.0500	10.0	ND	94.4	63-131	2.47	20	
Total Xylenes	14.1	0.0250	15.0	ND	94.1	63-131	2.50	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.61*		*8.00*		*95.1*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 4:29:34PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350004-BLK1)									Prepared: 12/11/23 Analyzed: 12/14/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.94*		*8.00*		*86.7*	*70-130*			
LCS (2350004-BS2)									Prepared: 12/11/23 Analyzed: 12/14/23
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.02*		*8.00*		*87.8*	*70-130*			
Matrix Spike (2350004-MS2)				**Source: E312053-02**					Prepared: 12/11/23 Analyzed: 12/14/23
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.09*		*8.00*		*88.7*	*70-130*			
Matrix Spike Dup (2350004-MSD2)				**Source: E312053-02**					Prepared: 12/11/23 Analyzed: 12/14/23
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130	2.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.12*		*8.00*		*88.9*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 4:29:34PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350045-BLK1)									Prepared: 12/13/23 Analyzed: 12/14/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*42.2*		*50.0*		*84.4*	*50-200*			
LCS (2350045-BS1)									Prepared: 12/13/23 Analyzed: 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: E312048-03**					Prepared: 12/13/23 Analyzed: 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: 12/13/23 Analyzed: 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*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 4:29:34PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350035-BLK1)									Prepared: 12/12/23 Analyzed: 12/14/23
Chloride	ND	20.0							
LCS (2350035-BS1)									Prepared: 12/12/23 Analyzed: 12/14/23
Chloride	242	20.0	250		96.7	90-110			
Matrix Spike (2350035-MS1)				**Source: E312048-02**					Prepared: 12/12/23 Analyzed: 12/14/23
Chloride	730	20.0	250	458	109	80-120			
Matrix Spike Dup (2350035-MSD1)				**Source: E312048-02**					Prepared: 12/12/23 Analyzed: 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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 16:29

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.

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	Bill To
Project: George Well Pad	Attention: Matador Production Company
Project Manager: Ashley Giovengo	Address: on file
Address: 3122 National Parks Hwy	City, State, Zip:
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only	
Lab WO#	Job Number
E312053	23052-0001

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
			X		

RCRA

State: NM | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	NM	Remarks
8:45	12/5/2023	Soil	1	PH01 - 0.5'	1						X			
8:47	12/5/2023	Soil	1	PH01 - 1'	2						X			

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com - samples kept on ice

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Ethan Haft	12/7/23	0700	Michelle Gaytan	12-7-23	1130
Michelle Gaytan	12-7-23	1730	Andrew Munoz	12-8-23	0700
Andrew Munoz	12-8-23	1300		12-8-23	1300

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

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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

envirotech

Envirotech Analytical Laboratory

Printed: 12/11/2023 12:49:24PM

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:	E312053
Phone:	(972) 371-5200	Date Logged In:	12/08/23 14:03	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

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:	George Well Pad
Work Order:	E312055
Job Number:	23052-0001
Received:	12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/15/23

Date Reported: 12/15/23

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

Project Name: George Well Pad
Workorder: E312055
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: George Well Pad.

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

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

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

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

Respectfully,

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

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

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

Field Offices:

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ljarboe@envirotech-inc.com

Michelle Golzales
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

Sample Summary

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 15:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E312055-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS02-0'	E312055-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS03-0'	E312055-03A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS04-0'	E312055-04A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS05-0'	E312055-05A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS06-0'	E312055-06A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS07-0'	E312055-07A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
SS08-0'	E312055-08A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

SS01-0'

E312055-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
Surrogate: 4-Bromochlorobenzene-PID		*91.1 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.8 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
Surrogate: n-Nonane		*95.9 %*	*50-200*	*12/12/23*	*12/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350018
Chloride	**183**	20.0	1	12/13/23	12/14/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

SS02-0'

E312055-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.2 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.3 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
Surrogate: n-Nonane		*95.2 %*	*50-200*	*12/12/23*	*12/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350018
Chloride	**391**	20.0	1	12/13/23	12/14/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

SS03-0'

E312055-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.3 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.2 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
Surrogate: n-Nonane		*94.1 %*	*50-200*	*12/12/23*	*12/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350018
Chloride	**610**	20.0	1	12/13/23	12/14/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

SS04-0'

E312055-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.8 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.1 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
Surrogate: n-Nonane		*97.0 %*	*50-200*	*12/12/23*	*12/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350018
Chloride	**634**	20.0	1	12/13/23	12/14/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

SS05-0'

E312055-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.4 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.8 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
Surrogate: n-Nonane		*97.4 %*	*50-200*	*12/12/23*	*12/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350018
Chloride	**248**	20.0	1	12/13/23	12/14/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

SS06-0'

E312055-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.3 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.7 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
Surrogate: n-Nonane		*97.2 %*	*50-200*	*12/12/23*	*12/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350018
Chloride	**3870**	200	10	12/13/23	12/14/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

SS07-0'

E312055-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.5 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.1 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350031
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/13/23	
Surrogate: n-Nonane		*93.8 %*	*50-200*	*12/12/23*	*12/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350018
Chloride	**834**	40.0	2	12/13/23	12/14/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

SS08-0'

E312055-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Benzene	ND	0.0250	1	12/11/23	12/15/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/15/23	
Toluene	ND	0.0250	1	12/11/23	12/15/23	
o-Xylene	ND	0.0250	1	12/11/23	12/15/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/15/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/15/23	
Surrogate: 4-Bromochlorobenzene-PID		*88.7 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350004
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.3 %*	*70-130*	*12/11/23*	*12/15/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350031
Diesel Range Organics (C10-C28)	**75.3**	25.0	1	12/12/23	12/13/23	
Oil Range Organics (C28-C36)	**88.3**	50.0	1	12/12/23	12/13/23	
Surrogate: n-Nonane		*94.1 %*	*50-200*	*12/12/23*	*12/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350018
Chloride	**194**	20.0	1	12/13/23	12/14/23	

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350004-BLK1)									Prepared: 12/11/23 Analyzed: 12/14/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.62*		*8.00*		*95.2*	*70-130*			
LCS (2350004-BS1)									Prepared: 12/11/23 Analyzed: 12/14/23
Benzene	4.84	0.0250	5.00		96.8	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.3	70-130			
Toluene	4.84	0.0250	5.00		96.9	70-130			
o-Xylene	4.78	0.0250	5.00		95.6	70-130			
p,m-Xylene	9.65	0.0500	10.0		96.5	70-130			
Total Xylenes	14.4	0.0250	15.0		96.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.62*		*8.00*		*95.2*	*70-130*			
Matrix Spike (2350004-MS1)				**Source: E312053-02**					Prepared: 12/11/23 Analyzed: 12/14/23
Benzene	4.85	0.0250	5.00	ND	96.9	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.6	61-133			
Toluene	4.86	0.0250	5.00	ND	97.1	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.8	63-131			
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.63*		*8.00*		*95.4*	*70-130*			
Matrix Spike Dup (2350004-MSD1)				**Source: E312053-02**					Prepared: 12/11/23 Analyzed: 12/14/23
Benzene	4.74	0.0250	5.00	ND	94.7	54-133	2.29	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.4	61-133	2.41	20	
Toluene	4.74	0.0250	5.00	ND	94.9	61-130	2.32	20	
o-Xylene	4.67	0.0250	5.00	ND	93.4	63-131	2.55	20	
p,m-Xylene	9.44	0.0500	10.0	ND	94.4	63-131	2.47	20	
Total Xylenes	14.1	0.0250	15.0	ND	94.1	63-131	2.50	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.61*		*8.00*		*95.1*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350004-BLK1)									Prepared: 12/11/23 Analyzed: 12/14/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.94*		*8.00*		*86.7*	*70-130*			
LCS (2350004-BS2)									Prepared: 12/11/23 Analyzed: 12/14/23
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.02*		*8.00*		*87.8*	*70-130*			
Matrix Spike (2350004-MS2)				**Source: E312053-02**					Prepared: 12/11/23 Analyzed: 12/14/23
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.09*		*8.00*		*88.7*	*70-130*			
Matrix Spike Dup (2350004-MSD2)				**Source: E312053-02**					Prepared: 12/11/23 Analyzed: 12/14/23
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130	2.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.12*		*8.00*		*88.9*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350031-BLK1)									Prepared: 12/12/23 Analyzed: 12/13/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*48.7*		*50.0*		*97.3*	*50-200*			
LCS (2350031-BS1)									Prepared: 12/12/23 Analyzed: 12/13/23
Diesel Range Organics (C10-C28)	222	25.0	250		89.0	38-132			
Surrogate: n-Nonane	*48.0*		*50.0*		*96.0*	*50-200*			
Matrix Spike (2350031-MS1)				**Source: E312055-05**					Prepared: 12/12/23 Analyzed: 12/13/23
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.2	38-132			
Surrogate: n-Nonane	*48.4*		*50.0*		*96.7*	*50-200*			
Matrix Spike Dup (2350031-MSD1)				**Source: E312055-05**					Prepared: 12/12/23 Analyzed: 12/13/23
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.2	38-132	0.0299	20	
Surrogate: n-Nonane	*51.5*		*50.0*		*103*	*50-200*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/2023 3:14:49PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350018-BLK1)									Prepared: 12/11/23 Analyzed: 12/14/23
Chloride	ND	20.0							
LCS (2350018-BS1)									Prepared: 12/11/23 Analyzed: 12/14/23
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2350018-MS1)				**Source: E312055-04**					Prepared: 12/11/23 Analyzed: 12/14/23
Chloride	823	20.0	250	634	75.3	80-120			M2
Matrix Spike Dup (2350018-MSD1)				**Source: E312055-04**					Prepared: 12/11/23 Analyzed: 12/14/23
Chloride	821	20.0	250	634	74.5	80-120	0.240	20	M2

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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/15/23 15:14

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**	Lab Use Only	TAT / EPA Program
Project: George Well Pad	Attention: Matador Production Company	Lab WO# E312055	Job Number 23052-0001
Project Manager: Ashley Giovengo	Address: on file	1D 2D 3D Standard: X	CWA / SDWA / RCRA
Address: 3122 National Parks Hwy	City, State, Zip:		
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398		
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com		
Email: agiovengo@ensolum.com			
Report due by:			

Analysis and Method: TPH GRO/DRO/ORO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC NM; GDOC TX

State: NM x; CO; UT; AZ; TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	GDOC TX	Remarks
11:33	12/5/2023	Soil	1	SS01 - 0'	1	X		
11:35	12/5/2023	Soil	1	SS02 - 0'	2	X		
12:55	12/6/2023	Soil	1	SS03 - 0'	3	X		
12:18	12/6/2023	Soil	1	SS04 - 0'	4	X		
13:20	12/6/2023	Soil	1	SS05 - 0'	5	X		
12:28	12/6/2023	Soil	1	SS06 - 0'	6	X		
11:44	12/5/2023	Soil	1	SS07 - 0'	7	X		
11:45	12/5/2023	Soil	1	SS08 - 0'	8	X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com - samples kept on ice

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Ethan Haft	12/7/23	0700	Michelle Gaugh	12-7-23	1130
Michelle Gaugh	12-7-23	1730	Andrew Muse	12-8-23	0700
Andrew Muse	12-8-23	1300		12-8-23	1300

Lab Use Only: Received on ice: (Y) N; T1 ____ T2 ____ T3 ____; AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other ____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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

envirotech

Envirotech Analytical Laboratory

Printed: 12/11/2023 1:00:53PM

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:	E312055
Phone:	(972) 371-5200	Date Logged In:	12/08/23 14:20	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

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:	George Well Pad
Work Order:	E312056
Job Number:	23052-0001
Received:	12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/18/23

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: 12/18/23

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

Project Name: George Well Pad
Workorder: E312056
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: George Well Pad.

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

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

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

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

Respectfully,

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

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

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

Field Offices:

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ljarboe@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/23 09:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH02-0.5'	E312056-01A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH02-1'	E312056-02A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH02-2'	E312056-03A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH02-3'	E312056-04A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.
PH02-4'	E312056-05A	Soil	12/05/23	12/08/23	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

PH02-0.5'

E312056-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350012
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*106 %*	*70-130*	*12/11/23*	*12/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.1 %*	*70-130*	*12/11/23*	*12/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350071
Diesel Range Organics (C10-C28)	**1210**	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
Surrogate: n-Nonane		*80.2 %*	*50-200*	*12/14/23*	*12/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350015
Chloride	**1370**	40.0	2	12/11/23	12/11/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

PH02-1'

E312056-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350012
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*103 %*	*70-130*	*12/11/23*	*12/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.2 %*	*70-130*	*12/11/23*	*12/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350071
Diesel Range Organics (C10-C28)	**555**	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
Surrogate: n-Nonane		*75.8 %*	*50-200*	*12/14/23*	*12/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350015
Chloride	**1230**	200	10	12/11/23	12/11/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

PH02-2'

E312056-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350012
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*12/11/23*	*12/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.5 %*	*70-130*	*12/11/23*	*12/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350071
Diesel Range Organics (C10-C28)	**168**	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
Surrogate: n-Nonane		*80.4 %*	*50-200*	*12/14/23*	*12/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350015
Chloride	**896**	200	10	12/11/23	12/11/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

PH02-3'

E312056-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350012
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.1 %*	*70-130*	*12/11/23*	*12/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.0 %*	*70-130*	*12/11/23*	*12/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350071
Diesel Range Organics (C10-C28)	ND	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
Surrogate: n-Nonane		*94.9 %*	*50-200*	*12/14/23*	*12/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350015
Chloride	**572**	200	10	12/11/23	12/11/23	

Sample Data

Matador Resources, LLC.	Project Name:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

PH02-4'

E312056-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2350012
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*12/11/23*	*12/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2350012
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.2 %*	*70-130*	*12/11/23*	*12/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350071
Diesel Range Organics (C10-C28)	ND	25.0	1	12/14/23	12/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/14/23	12/15/23	
Surrogate: n-Nonane		*81.0 %*	*50-200*	*12/14/23*	*12/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2350015
Chloride	**765**	200	10	12/11/23	12/11/23	

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350012-BLK1)									Prepared: 12/11/23 Analyzed: 12/11/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.28*		*8.00*		*91.0*	*70-130*			
LCS (2350012-BS1)									Prepared: 12/11/23 Analyzed: 12/11/23
Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.7	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.28*		*8.00*		*91.0*	*70-130*			
Matrix Spike (2350012-MS1)				**Source: E312059-01**					Prepared: 12/11/23 Analyzed: 12/11/23
Benzene	4.64	0.0250	5.00	ND	92.9	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.8	61-133			
Toluene	4.92	0.0250	5.00	ND	98.4	61-130			
o-Xylene	5.02	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.45*		*8.00*		*93.2*	*70-130*			
Matrix Spike Dup (2350012-MSD1)				**Source: E312059-01**					Prepared: 12/11/23 Analyzed: 12/11/23
Benzene	4.87	0.0250	5.00	ND	97.4	54-133	4.77	20	
Ethylbenzene	5.25	0.0250	5.00	ND	105	61-133	5.02	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	4.79	20	
o-Xylene	5.27	0.0250	5.00	ND	105	63-131	4.86	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	4.92	20	
Total Xylenes	16.0	0.0250	15.0	ND	106	63-131	4.90	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.49*		*8.00*		*93.7*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350012-BLK1)									Prepared: 12/11/23 Analyzed: 12/11/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.20*		*8.00*		*90.0*	*70-130*			
LCS (2350012-BS2)									Prepared: 12/11/23 Analyzed: 12/11/23
Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.19*		*8.00*		*89.9*	*70-130*			
Matrix Spike (2350012-MS2)				**Source: E312059-01**					Prepared: 12/11/23 Analyzed: 12/11/23
Gasoline Range Organics (C6-C10)	49.4	20.0	50.0	ND	98.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.15*		*8.00*		*89.3*	*70-130*			
Matrix Spike Dup (2350012-MSD2)				**Source: E312059-01**					Prepared: 12/11/23 Analyzed: 12/11/23
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.3	70-130	0.450	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.18*		*8.00*		*89.8*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350071-BLK1)									Prepared: 12/14/23 Analyzed: 12/15/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*50.2*		*50.0*		*100*	*50-200*			
LCS (2350071-BS1)									Prepared: 12/14/23 Analyzed: 12/15/23
Diesel Range Organics (C10-C28)	246	25.0	250		98.4	38-132			
Surrogate: n-Nonane	*51.0*		*50.0*		*102*	*50-200*			
Matrix Spike (2350071-MS1)				**Source: E312056-04**					Prepared: 12/14/23 Analyzed: 12/15/23
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.3	38-132			
Surrogate: n-Nonane	*53.2*		*50.0*		*106*	*50-200*			
Matrix Spike Dup (2350071-MSD1)				**Source: E312056-04**					Prepared: 12/14/23 Analyzed: 12/15/23
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	0.292	20	
Surrogate: n-Nonane	*49.1*		*50.0*		*98.2*	*50-200*			

QC Summary Data

Matador Resources, LLC.	Project Name:	George Well Pad	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/2023 9:40:42AM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350015-BLK1)									Prepared: 12/11/23 Analyzed: 12/11/23
Chloride	ND	20.0							
LCS (2350015-BS1)									Prepared: 12/11/23 Analyzed: 12/11/23
Chloride	246	20.0	250		98.5	90-110			
Matrix Spike (2350015-MS1)				**Source: E312060-02**					Prepared: 12/11/23 Analyzed: 12/11/23
Chloride	276	200	250	ND	110	80-120			
Matrix Spike Dup (2350015-MSD1)				**Source: E312060-02**					Prepared: 12/11/23 Analyzed: 12/11/23
Chloride	271	200	250	ND	108	80-120	1.79	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:	George Well Pad	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/18/23 09:40

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.

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**	Lab Use Only	TAT / EPA Program
Project: George Well Pad	Attention: Matador Production Company	Lab WO# E3120560	Job Number 23052-0001
Project Manager: Ashley Giovengo	Address: on file		1D 2D 3D Standard: X
Address: 3122 National Parks Hwy	City, State, Zip:		EPA Program: CWA, SDWA, RCRA
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398		State: NM X; CO; UT; AZ; TX
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com		
Email: agiovengo@ensolum.com			
Report due by:			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
12:00	12/5/2023	Soil	1	PH02 - 0.5'	1						X		
12:03	12/5/2023	Soil	1	PH02 - 1'	2						X		
12:04	12/5/2023	Soil	1	PH02 - 2'	3						X		
12:05	12/5/2023	Soil	1	PH02 - 3'	4						X		
12:25	12/5/2023	Soil	1	PH02 - 4'	5						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com - samples kept on ice

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12/7/23	0700		12.7.23	1130
	12-7-23	1730		12.8.23	0700
Andrew Hood	12.8.23	1300		12.8.23	1300

Lab Use Only: Received on ice: (Y) N; T1 ____ T2 ____ T3 ____; AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other ____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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

envirotech

Envirotech Analytical Laboratory

Printed: 12/11/2023 1:04:15PM

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:	E312056
Phone:	(972) 371-5200	Date Logged In:	12/08/23 14:24	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	12/15/23 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Comments/Resolution

Client Instruction

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

Date

envirotech Inc.

ENSOLUM

APPENDIX F

Email Correspondence

From: Hamlet, Robert, EMNRD
To: Ashley Giovengo; clinton.talley@matadorresources.com; Jason Touchet
Cc: Cole Burton; Chad Hamilton; Ethan Haft; Israel Estrella; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: Extension Request - Matador Production Company - George Well Pad - Incident Number nAPP2333038378
Date: Wednesday, January 31, 2024 3:45:43 PM
Attachments: image006.png
image007.png
image008.png
image009.png

[**EXTERNAL EMAIL**]

Ashley,

The way the new OCD Permitting Incident Page is set up, we can only give a 90 day extension from the day it is requested. That would extend the deadline for a Remediation Closure Report until 4/30/2024. Your request for an extension to **April 30, 2024** is approved. If you feel additional time is needed, you can request an additional extension near the deadline. We will review the request at that time.

Regards,

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Wednesday, January 31, 2024 11:50 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; clinton.talley@matadorresources.com; Jason Touchet <jason.touchet@matadorresources.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>; Israel Estrella <iestrella@ensolum.com>
Subject: [EXTERNAL] Extension Request - Matador Production Company - George Well Pad - Incident Number nAPP2333038378

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

Matador Production Company (Matador) is requesting an extension for the current deadline of February 24, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the George Well Pad (Incident Number nAPP2333038378). The release occurred on November 26, 2023, and initial site assessment and delineation activities have been completed. Currently, a drilling rig is onsite and remediation within the vicinity of the spill area is not possible. In addition to the drilling rig onsite, Matador would like to establish depth to water within a 0.5-mile radius of the Site. Matador will contract a licensed well driller to complete a depth to water boring within the next 90 days. The well log and file will be submitted to the New Mexico Office of the State Engineer (NMOSE) and included in the remediation work plan or closure report. Matador intends to remediate the spill area when drilling activities at the Site have been completed and submit a remediation work plan or closure report, following remediation efforts and confirmation sampling. Matador respectfully requests an extension until May 24, 2024.

Thanks,

Ashley Giovengo
Senior Engineer
575-988-0055
Ensolum, LLC

From: Hamlet, Robert, EMNRD
To: Ashley Giovengo; clinton.talley@matadorresources.com; Jason Touchet
Cc: Chad Hamilton; Cole Burton; Israel Estrella; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: (Final Extension) - Matador Production Company - George Well Pad - Incident Number nAPP2333038378
Date: Monday, April 22, 2024 3:36:11 PM
Attachments: image006.png
image007.png
image008.png
image009.png

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2333038378**

Ashley,

Your request for a 90 day extension to **July 22nd, 2024** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Monday, April 22, 2024 11:34 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; clinton.talley@matadorresources.com; Jason Touchet <jason.touchet@matadorresources.com>
Cc: Chad Hamilton <chamilton@ensolum.com>; Cole Burton <cburton@ensolum.com>; Israel Estrella <iestrella@ensolum.com>
Subject: [EXTERNAL] Extension Request - Matador Production Company - George Well Pad - Incident Number nAPP2333038378

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

Matador Production Company (Matador) is requesting a 2nd extension for the current deadline of April 30, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the George Well Pad (Incident Number nAPP2333038378). The release occurred on November 26, 2023, and initial site assessment and delineation activities have been completed. Matador was able to secure landowner permission on March 26, 2024, for the purpose of establishing depth to water (DTW) within a 0.5-mile radius of the Site, however Matador is currently waiting on approval from the New Mexico Office of the State Engineer (NMOSE) for the WR-07 permit (Application for Permit to Drill a Well). Once Matador receives the approved drilling permit, the DTW determination will be completed, and remediation/confirmation sampling of the impacted area will begin. Matador intends to submit a remediation work plan or closure report, following remediation efforts and confirmation sampling. Matador respectfully requests an extension until June 29, 2024.

Matador will upload this extension request to the NMOCD web portal following this email submission.

Thanks,

Ashley Giovengo
Senior Scientist
575-988-0055
Ensolum, LLC

"Your authenticity is your superpower." – Unknown

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

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

QUESTIONS

Action 362060

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 362060
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2333038378**
Incident Name	**NAPP2333038378 GEORGE WELL PAD @ 0**
Incident Type	**Release Other**
Incident Status	**Remediation Plan Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	GEORGE WELL PAD
Date Release Discovered	11/26/2023
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	Cause: Other | Frac Tank | Drilling Mud/Fluid | Released: 467 BBL | Recovered: 450 BBL | Lost: 17 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	4" Butterfly Valve open due to no plug-in valve release 450 bbls in containment and 17 bbls on ground.

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QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 362060
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/09/2024

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QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 362060
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	08/26/2024
On what date will (or did) the final sampling or liner inspection occur	12/06/2023
On what date will (or was) the remediation complete(d)	08/26/2024
What is the estimated surface area (in square feet) that will be remediated	161
What is the estimated volume (in cubic yards) that will be remediated	8698
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 362060
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
Is (or was) there affected material present needing to be removed	Yes
Is (or was) there a power wash of the lined containment area (to be) performed	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/09/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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	Action Number: 362060
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QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	***{Unavailable.}***
Was all the impacted materials removed from the liner	*Unavailable.*

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

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CONDITIONS

Action 362060

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 362060
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation proposal approved with conditions. Confirmation samples for both the base and sidewalls of the surface scrape should be collected every 200 square feet. OCD noticed that the answers, to two different questions you answered in your submittal under Remediation Plan, have been switched; specifically “What is the estimated surface area (in square feet) that will be remediated” and “What is the estimated volume (in cubic yards) that will be remediated.” Please correct this with your next submission to Permitting regarding this incident. Matador has already been granted two extensions prior to the submittal of this remediation plan, therefore submit a remediation closure report to the OCD by 10/23/24.	7/25/2024