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Closure Report

Biggers Federal Com #214H
Lea County, New Mexico
API ID # 30-025-44483
Incident # NRM2000360009

Prepared For:

Matador Resources
5347 N. 26th Street 2nd Floor
Artesia, NM 8821

Prepared By:

Talon/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

November 27, 2023

**NMOCD**

506 W. Texas Ave
Artesia, NM 88210

BLM

620 E. Greene St.
Carlsbad, NM 88220

Subject: **Closure Report**
Biggers Federal Com #214H
Lea County, New Mexico
API ID # 30-025-44483
Incident # NRM2000360009

To Whom It May Concern,

Matador Resources contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial actions and closure request are presented herein.

Site Information

The Biggers Federal Com #214H is located approximately 12.25 miles due west of Jal, New Mexico. The legal location for this release is Unit Letter P, Section 18, Township 25 South and Range 35 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.1233199, -103.4020527. A Site Location Map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is comprised of Kermit-Palomas fine sands, 0 to 12 percent slopes. The referenced soil data is presented in [Appendix II](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of eolian and piedmont deposits, Holocene to middle Pleistocene in age. Drainage courses in this area are typically well drained.

Groundwater and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 230 feet below ground surface (bgs) but is located greater than 0.5 miles from the subject location. The FEMA Flood Map Service Center does not locate the site in a 100-year flood plain. Further research of the Bureau of Land Management Karst data indicates that this site is situated within a low potential Karst area. See [Appendix II](#) for the site characterization data.

Site Characterization	
What is the shallowest depth to groundwater beneath the area affected by the release? (ft bgs)	230 ft
What method was used to determine the depth to ground water?	Estimate
Did the release impact groundwater or surface water?	No
Distance from a flowing watercourse or any other significant watercourse. (mi)	2.8 mi
Distance from any lakebed, sinkhole, or playa lake. (mi)	6.5 mi
Distance from an occupied permanent residence, school, hospital, institution, or church. (mi)	11.6 mi
Distance from a spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes. (mi)	0.5 mi
Distance from any fresh water well or spring. (mi)	1.7 mi
Distance from incorporated municipal boundaries or a defined municipal fresh water field. (mi)	11.6 mi
Distance from a wetland. (mi)	2.8 mi
Distance from a subsurface mine. (mi)	34.1 mi
Distance from (non-karst) unstable area. (mi)	8.5 mi
Categorize the risk of this well/site being in a karst geology.	Low
Distance from a 100 year floodplain. (mi)	26.2 mi
Did the release impact areas not on an exploration, development, production, or storage site?	Yes

Groundwater and Site Characterization (Continued)

With no depth to water source available that meets New Mexico Oil Conservation Division's (NMOCD) criteria within ½ mile of the site, the responsible party must therefore adhere to the cleanup criteria for this site of groundwater less than 50 feet bgs, Table I, NMOCD Rule 19.15.29 NMAC.

Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On October 27, 2019, a static electric spark started a fire at an open top frac tank. Approximately 315 barrels (bbls) of freshwater and frac fluid were released on the pad location. The initial C-141 was submitted to the NMOCD, can be reviewed under incident number NRM2000360009.

Site maps of the release are presented in [Appendix I](#). Initial C-141 spill notifications were filed with the NMOCD and are attached in [Appendix III](#).

Site Assessment Activities

On August 28, 2023, upon client authorization, Talon mobilized personnel to conduct an initial site assessment. Soil samples were collected throughout the impacted area. The sample positions and impacted area were mapped with a global navigation satellite system (GNSS) and photographed. All soil samples were properly packaged in laboratory provided glassware, preserved on ice, and transported with the chain of custody to Envirotech, Inc. in Farmington, New Mexico for analysis of Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (TPH, EPA Method 8015D) and Volatile Organics (BTEX, EPA Method 8021B). The analytical results of this sampling event are presented below in Table 1. A Site Assessment map is presented in [Appendix I](#).

Table 1
Site Assessment Analytical Data

Biggers Federal Com 214H									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	8/28/23	0	ND	ND	ND	3,590	6,070	9,660	ND
	8/28/23	1'	ND	ND	ND	ND	ND	0	ND
S-2	8/28/23	0	ND	ND	ND	36,000	38,100	74,100	29.8
	8/28/23	1'	ND	ND	ND	ND	ND	0	ND
S-3	8/28/23	0	ND	ND	ND	105	165	270	ND
	8/28/23	1'	ND	ND	ND	ND	ND	0	ND
S-4	8/28/23	0	ND	ND	ND	2,470	2,780	5,250	24.9
	8/28/23	1'	ND	ND	ND	ND	ND	0	ND
S-5	8/28/23	0	ND	ND	ND	17,900	29,800	47,700	ND
	8/28/23	1'	ND	ND	ND	ND	ND	0	ND
S-6	8/28/23	0	ND	ND	ND	2,070	2,840	4,910	ND
	8/28/23	1'	ND	ND	ND	ND	ND	0	ND

NOTES:

BGS Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

MRO Motor oil range organics

S Sample

ND Analyte Not Detected

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

Remediation Activities

On September 27, 2023, Talon personnel began the excavation of the impacted area to a depth of one (1) foot bgs.

On October 16, 2023, composite samples were collected from the bottoms and sidewalls of the excavations. These samples were packaged in laboratory provided glassware, preserved on ice, and transported with the chain of custody to Envirotech, Inc. in Farmington, New Mexico for analysis of Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (TPH, EPA Method 8015D) and Volatile Organics (BTEX, EPA Method 8021B). The sample results from the laboratory analysis are summarized below in Table 2. Sample locations are illustrated in Figure 2 ([Appendix I](#)) and complete laboratory analytical reports are presented in [Appendix V](#).

Table 2
Site Closure Analytical Data

Biggers Federal Com #214H									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
C-1	10/16/2023	1'	ND	ND	ND	ND	ND	-	130
C-2	10/16/2023	1'	ND	ND	ND	ND	ND	-	122
C-3	10/16/2023	1'	ND	ND	ND	ND	ND	-	133
C-4	10/16/2023	1'	ND	ND	ND	ND	ND	-	140
C-5	10/16/2023	1'	ND	ND	ND	ND	ND	-	151
C-6	10/16/2023	1'	ND	ND	ND	ND	ND	-	ND
C-7	10/16/2023	1'	ND	ND	ND	ND	ND	-	ND
C-8	10/16/2023	1'	ND	ND	ND	ND	ND	-	ND
C-9	10/16/2023	1'	ND	ND	ND	ND	ND	-	ND
C-10	10/16/2023	1'	ND	ND	ND	ND	ND	-	ND
C-11	10/16/2023	1'	ND	ND	ND	ND	ND	-	22.5

Table 2 (Continued)
Site Closure Analytical Data

Biggers Federal Com #214H									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
C-12	10/16/2023	1'	ND	ND	ND	ND	ND	-	30
C-13	10/16/2023	1'	ND	ND	ND	ND	ND	-	ND
C-14	10/16/2023	1'	ND	ND	ND	ND	ND	-	ND
C-15	10/16/2023	1'	ND	ND	ND	ND	ND	-	ND
C-16	10/16/2023	1'	ND	ND	ND	ND	ND	-	ND
C-17	10/16/2023	1'	ND	ND	ND	ND	ND	-	ND
C-18	10/16/2023	1'	ND	ND	ND	ND	ND	-	ND
C-19	10/16/2023	1'	ND	ND	ND	ND	ND	-	34.9
C-20	10/16/2023	1'	ND	ND	ND	ND	ND	-	31.3
C-21	10/16/2023	1'	ND	ND	ND	ND	ND	-	25.9
C-22	10/16/2023	1'	ND	ND	ND	ND	ND	-	27.9
C-23	10/16/2023	1'	ND	ND	ND	ND	ND	-	ND
C-24	10/16/2023	1'	ND	ND	ND	ND	ND	-	134
C-25	10/16/2023	1'	ND	ND	ND	ND	ND	-	128
C-26	10/16/2023	1'	ND	ND	ND	ND	ND	-	126
C-27	10/16/2023	1'	ND	ND	ND	25.9	ND	25.9	145
C-28	10/16/2023	1'	ND	ND	ND	ND	ND	-	135
C-29	10/16/2023	1'	ND	ND	ND	27.7	ND	27.7	129
SW-1	10/16/2023		ND	ND	ND	ND	ND	-	132
SW-2	10/16/2023		ND	ND	ND	ND	ND	-	146
SW-3	10/16/2023		ND	ND	ND	ND	ND	-	139
SW-4	10/16/2023		ND	ND	ND	ND	ND	-	138
SW-5	10/16/2023		ND	ND	ND	ND	ND	-	116
SW-6	10/16/2023		ND	ND	ND	ND	ND	-	140

NOTES:

BGS Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

MRO Motor oil range organics

C Confirmation Sample

SW Sidewall Sample

ND Analyte Not Detected

**Highlighted cells indicate
 exceedance of NMOCD Table 1
 Closure Criteria**

Remedial Action Summary

- The impacted areas were excavated to a depth of one (1) feet bgs. Talon personnel field titrated soil samples for total chlorides to guide the vertical and horizontal extents of the excavation process.
- Due to the large scale of the excavation area a confirmation sampling variance was granted by the NMOCD. Confirmation soil samples were collected at 500 square foot intervals and analyzed for TPH, BTEX and Total Chlorides to insure all areas had reached NMOCD closure criteria.
- The excavated areas on the well pad were backfilled with new caliche, machine compacted and contoured to match the surrounding location.
- The excavated areas in the pasture were backfilled with new, locally obtained topsoil.
- Approximately 616 cubic yards of contaminated material was transported to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- Photographic documentation is provided in [Appendix IV](#).
- Copies of the Final C-141s and NMOCD correspondence are presented in [Appendix III](#).

Closure Request

Based upon the completed remedial actions and confirmation sampling results, on behalf of Matador Resources, we respectfully request that no further actions be required and the incident closed.

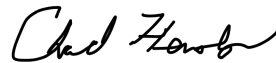
Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

Talon/LPE



Matthew Gomez
Project Manager



Chad Hensley
Senior Regional Manager

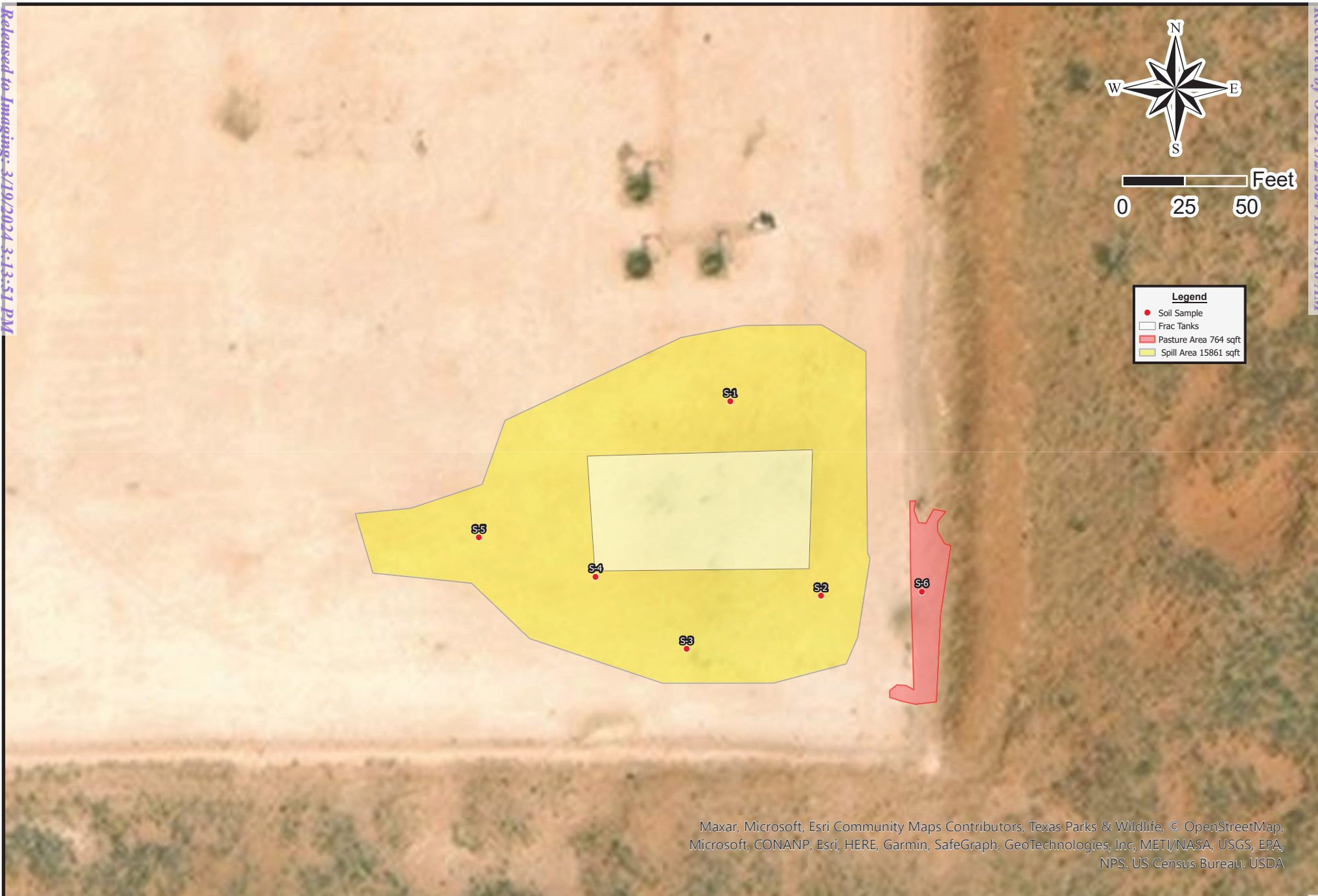
Attachments:

- Appendix I Site Maps
- Appendix II Groundwater Data, Soil Survey, FEMA Flood Map
- Appendix III C-141 Forms, NMOCD Correspondence
- Appendix IV Photographic Documentation
- Appendix V Laboratory Analytical Reports



Appendix I

Site Maps



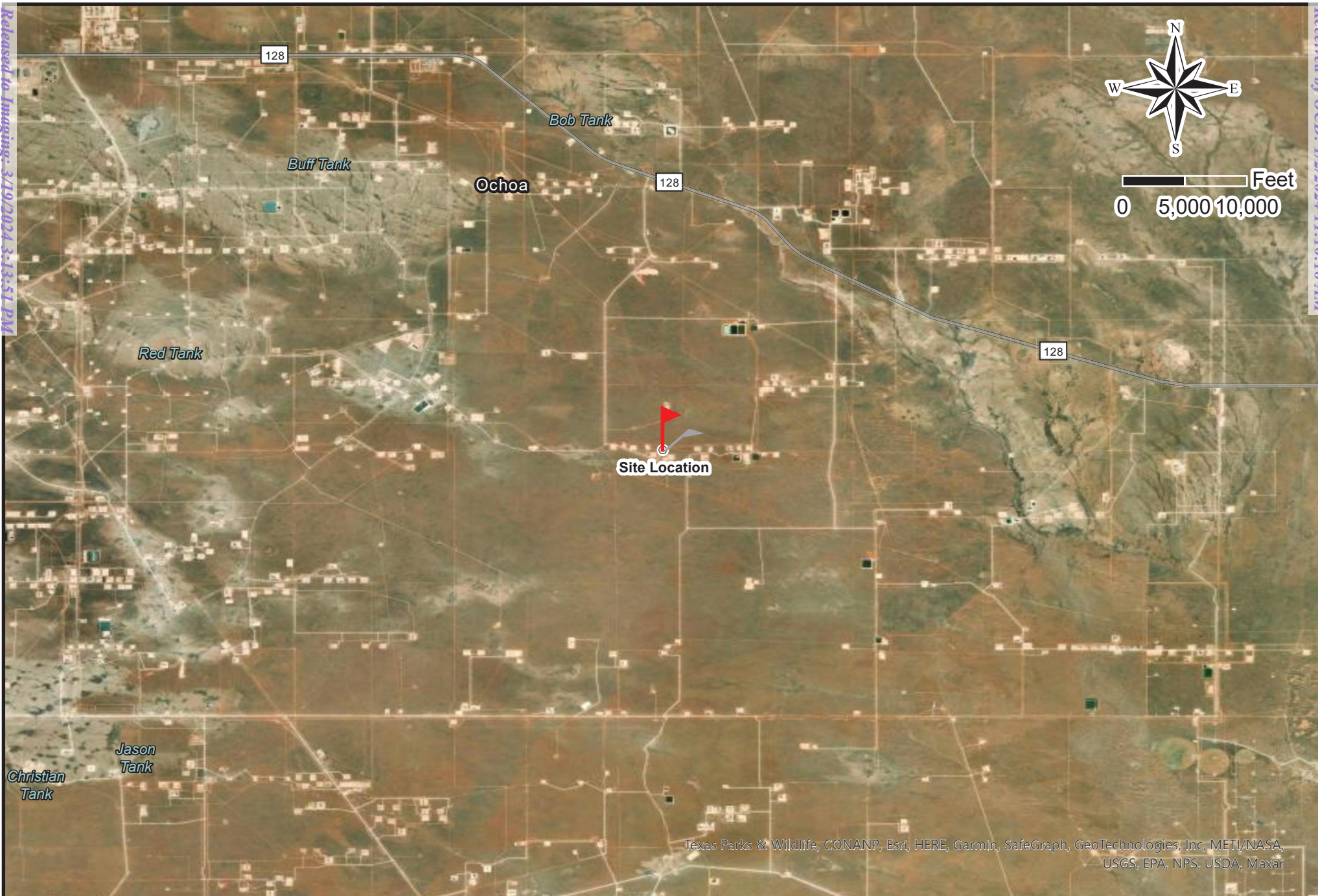


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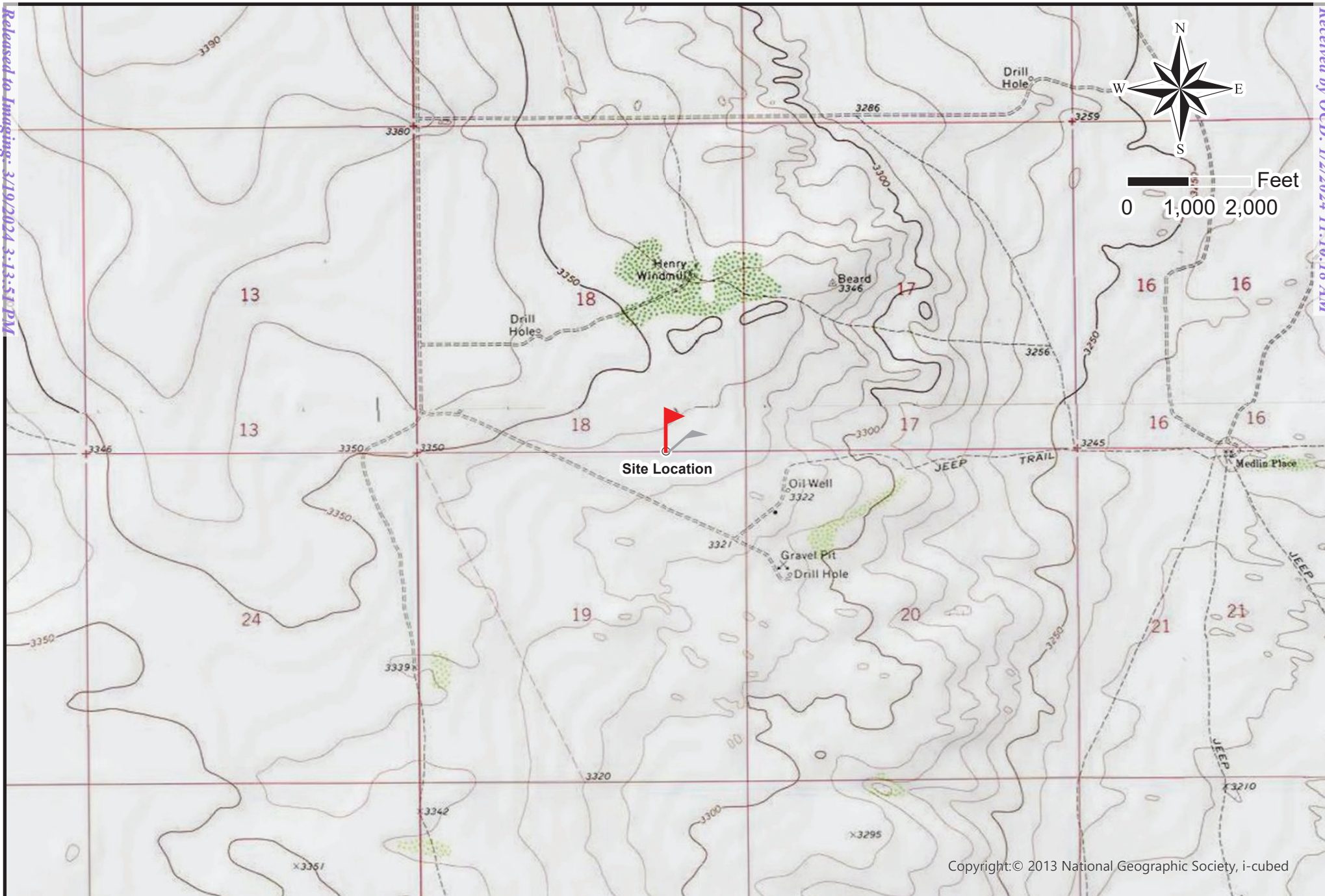
Drafted: 11/2/2023
1 in = 50 ft
Drafted By: IJR

Matador Resources
Biggers Fed Com 214H
Lea County, NM
32.123319,-103.4020527
Figure 2 - Confirmation Sample Map



Drafted: 11/2/2023
1 in = 10,000 ft
Drafted By: IJR

Matador Resources
Biggers Fed Com 214H
Lea County, NM
32.123319,-103.4020527
Figure 3 - Location Map

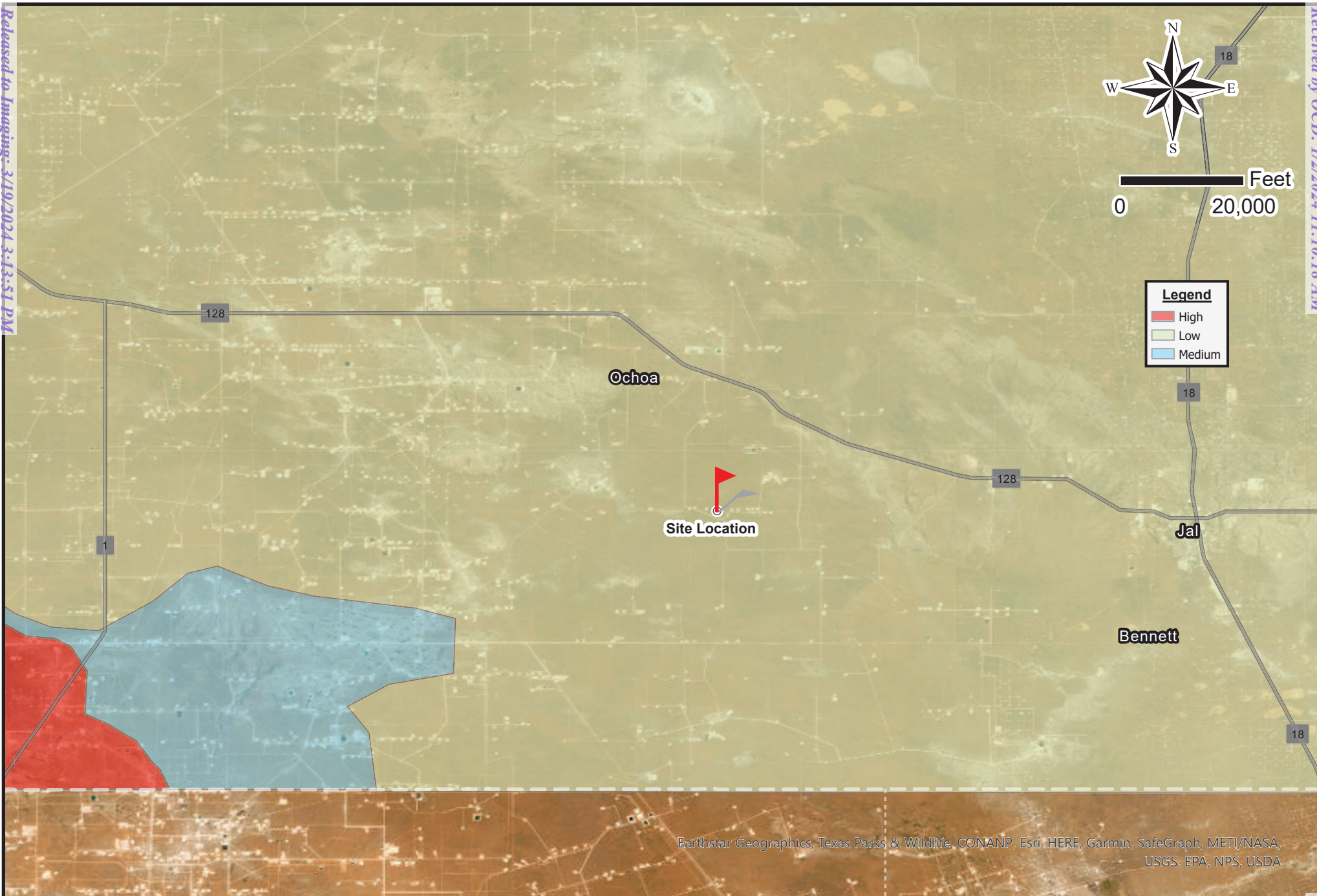


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Drafted: 11/2/2023
1 in = 2,000 ft
Drafted By: IJR

Matador Resources
Biggers Fed Com 214H
Lea County, NM
32.123319,-103.4020527
Figure 4 - Topographic Map



Drafted: 11/7/2023
1 in = 20,000 ft
Drafted By: IJR

Matador Resources
Biggers Fed Com 214H
Lea County, NM
32.123319,-103.4020527
Figure 5 - Karst Map



Appendix II

Groundwater Data

Soil Survey

FEMA Flood Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has been
replaced,
O=orphaned,
C=the file is
closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tw	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<u>C 02296</u>		CUB	LE	3	4	2	18	25S	35E	650846	3556088	871	300	230	70
<u>C 02299</u>		CUB	LE	4	2	4	24	25S	34E	649517	3554125	1644	350	300	50
<u>C 02297</u>		CUB	LE	2	2	1	21	25S	35E	653475	3555216	2734	300	230	70
<u>C 02298</u>		CUB	LE	2	2	1	21	25S	35E	653484	3555216	2743	250	205	45

Average Depth to Water: **241 feet**

Minimum Depth: **205 feet**

Maximum Depth: **300 feet**

Record Count: 4

UTM NAD83 Radius Search (in meters):

Easting (X): 650740.82

Northing (Y): 3555222.84

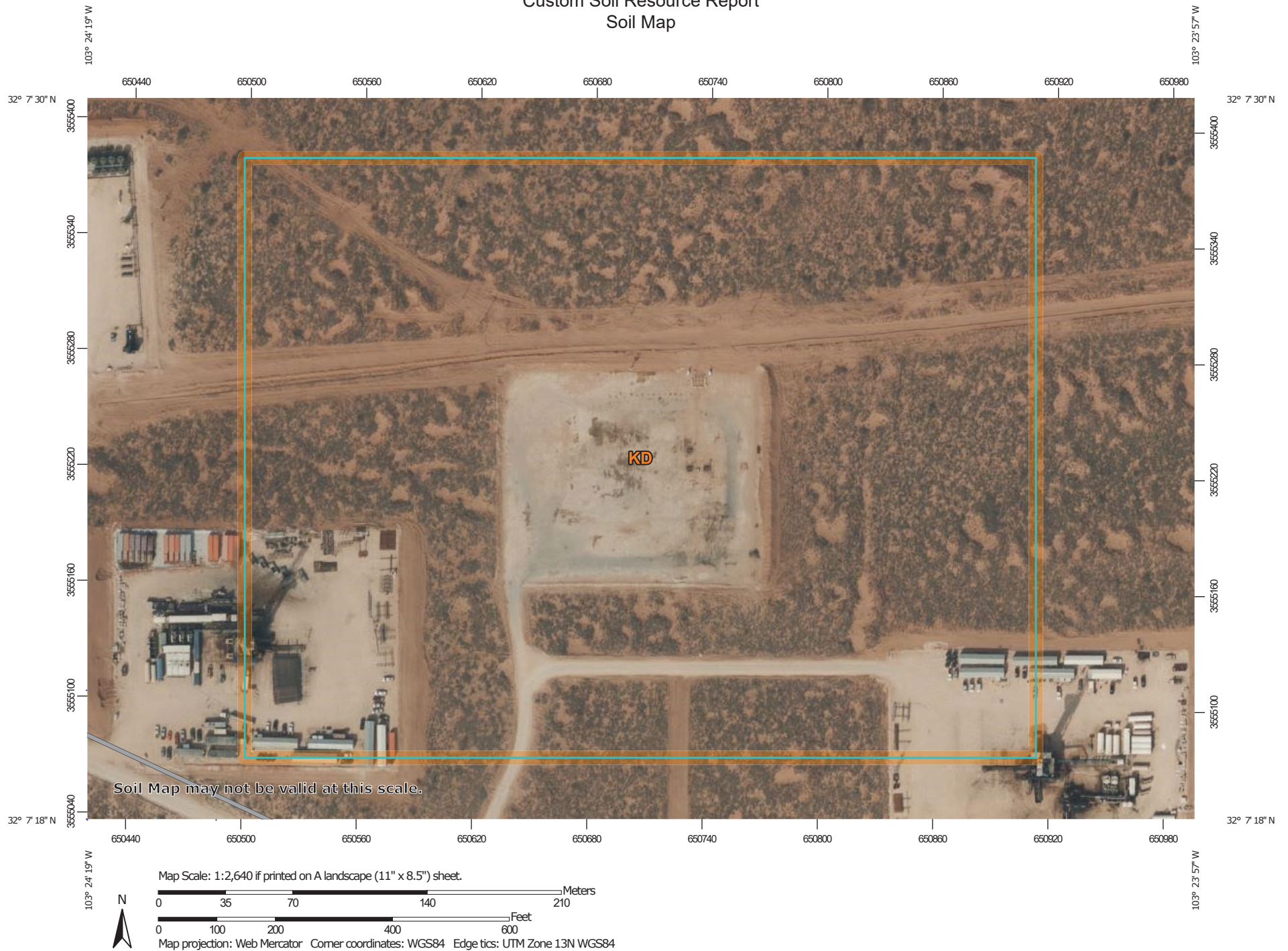
Radius: 3000

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

9/27/23 6:54 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

Custom Soil Resource Report Soil Map



Custom Soil Resource Report

Lea County, New Mexico

KD—Kermit-Palomas fine sands, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpv
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 70 percent
Palomas and similar soils: 20 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 3 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Description of Palomas

Setting

Landform: Dunes

Custom Soil Resource Report

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand

Bt - 16 to 60 inches: sandy clay loam

Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 50 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components**Pyote**

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Palomas

Percent of map unit: 1 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Dune land

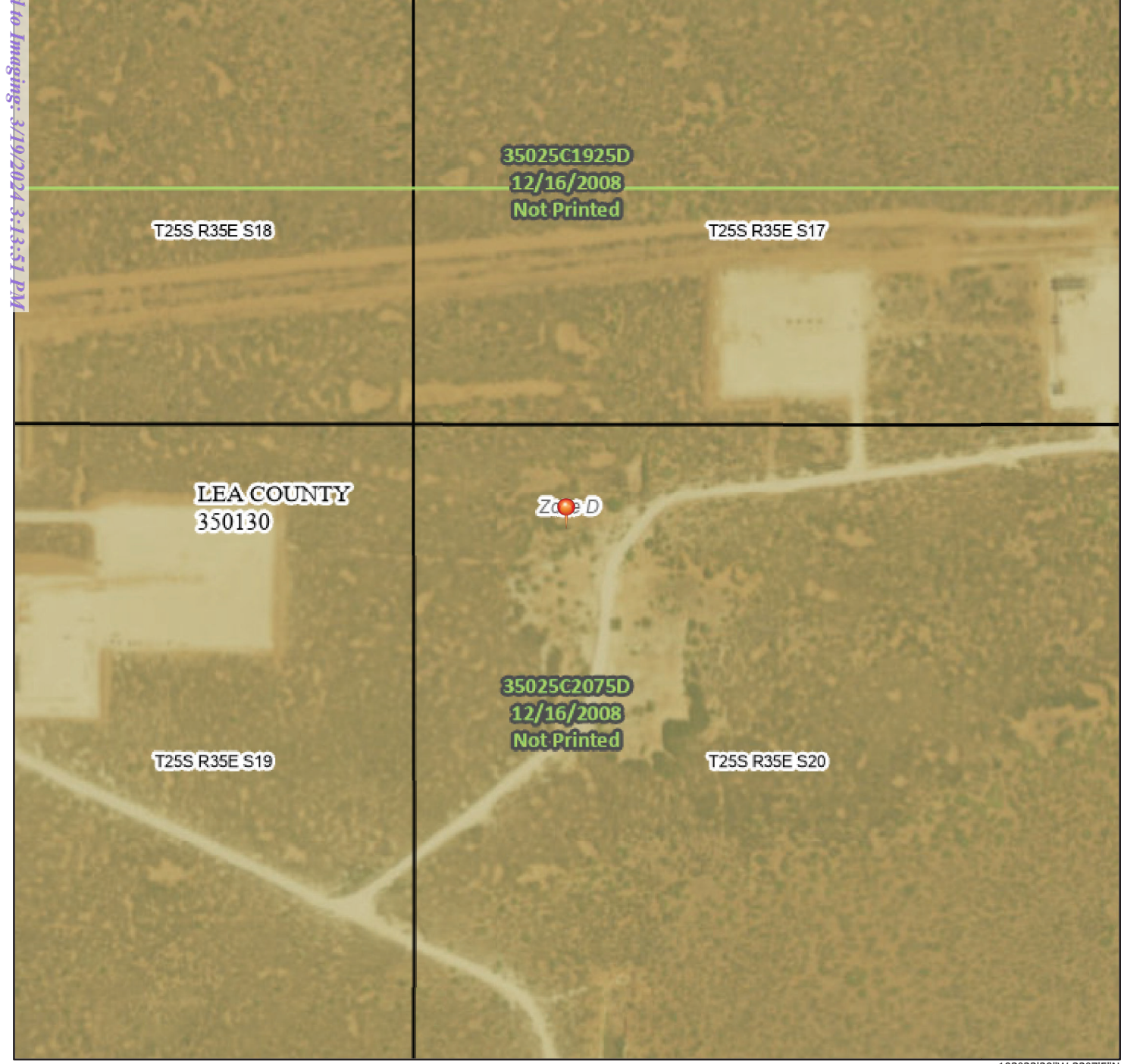
Percent of map unit: 1 percent

Hydric soil rating: No

National Flood Hazard Layer FIRMMette



103°24'7"W 32°7'35"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone X
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
OTHER FEATURES		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/26/2023 at 2:19 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Released to Imaging: 3/19/2024 3:13:51 PM

Received by OCD: 1/2/2024 11:10:18 AM



Appendix III

C-141 Forms

NMOCD Correspondence

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	NRM2000360009
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

XESIC-191113-C-1410

Responsible Party: Matador Resources	OGRID 228937
Contact Name: John Hurt	Contact Telephone 972-371-5200
Contact email: JHurt@matadorresources.com	Incident # (assigned by OCD) NRM2000360009
Contact mailing address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	

Location of Release Source

Latitude 32.1233199 Longitude -103.4020527
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Biggers Federal Com #214H	Site Type: Oil Well
Date Release Discovered: 10/27/2019	API# (if applicable) 30-025-44483

Unit Letter	Section	Township	Range	County
P	18	25S	35E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe) Freshwater & Frac Fluid	Volume/Weight Released (provide units) 315 bbls	Volume/Weight Recovered (provide units)

Cause of Release:

Fire started at an open top frac tank – spark determined to be caused by static

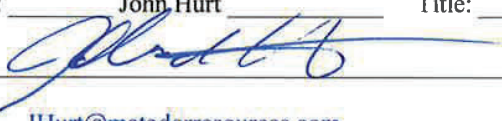
State of New Mexico
Oil Conservation Division

Incident ID	NRM2000360009
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? >25 bbls & Fire
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by SMA (Melodie Sanjari) to NMOCD District I & BLM on 10/28/2019 via email.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>John Hurt</u>	Title: <u>RES Specialist</u>
Signature: 	Date: <u>11/13/19</u>
email: <u>JHurt@matadorresources.com</u>	Telephone: <u>972-371-5200</u>
OCD Only	
Received by: <u>Ramona Marcus</u>	Date: <u>1/3/2019</u>

Incident ID	NRM2000360009
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>230</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM2000360009
District RP	
Facility ID	
Application ID	

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

Printed Name: Clinton Talley Title: EHS Supervisor

Signature: *Clint Talley* Date: 1/2/2024

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

OCD Only

Received by: _____ Date: _____

Incident ID	NRM2000360009
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Clinton Talley Title: EHS Supervisor
Signature: *Clint Talley* Date: 1/2/2024
email: clinton.talley@matadorresources.com Telephone: 337-319-8398

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Matthew Gomez

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, October 11, 2023 9:08 AM
To: Matthew Gomez; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD
Cc: Chad Hensley
Subject: RE: [EXTERNAL] Incident # nRM2000360009 - Biggers Federal Com # 214H

This message originated from an **External Source**. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.

Good morning Matthew,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Matthew Gomez <mgomez@talonlpe.com>
Sent: Wednesday, October 11, 2023 6:27 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Chad Hensley <chensley@talonlpe.com>
Subject: [EXTERNAL] Incident # nRM2000360009 - Biggers Federal Com # 214H

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

Good Morning,

This email is to serve as notification for the confirmation sampling event scheduled for Friday October 13, 2023 at 9:00 AM. Please contact me with any question or concerns.

Respectfully,

Matthew Gomez
Environmental Project Manager
2022 Core Value Champion
Office: 575.746.8768 x710
Cell: 575.942.0688
Fax: 575.746.8905
Emergency: 866.742.0742
Web: www.talonlpe.com



At Talon/LPE, we are quality in all things, including communication. Have a question? Need a quote? Send an email to clientrelations@talonlpe.com.

Matthew Gomez

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, October 13, 2023 10:12 AM
To: Matthew Gomez; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD
Cc: Nathaniel Rose; Chad Hensley
Subject: RE: [EXTERNAL] Incident # nRM2000360009 - Biggers Federal Com # 214H

This message originated from an **External Source**. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.

Hi Matthew,

Thanks for the update!

Sincerely,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Matthew Gomez <mgomez@talonlpe.com>
Sent: Friday, October 13, 2023 9:15 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Nathaniel Rose <nrose@talonlpe.com>; Chad Hensley <chensley@talonlpe.com>
Subject: [EXTERNAL] Incident # nRM2000360009 - Biggers Federal Com # 214H

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

Good Morning,

This email is to serve as notification for the ongoing confirmation sampling event scheduled for Monday October 16, 2023 at 9:00 AM. Please contact me with any question or concerns.

Respectfully,

Matthew Gomez
Environmental Project Manager
2022 Core Value Champion
Office: 575.746.8768 x710
Cell: 575.942.0688
Fax: 575.746.8905
Emergency: 866.742.0742
Web: www.talonlpe.com



At Talon/LPE, we are quality in all things, including communication. Have a question? Need a quote? Send an email to clientrelations@talonlpe.com.

From: [Nathaniel Rose](#)
To: [Chad Hensley](#)
Cc: [Matthew Gomez](#)
Subject: FW: [EXTERNAL] BIGGERS FEDERAL COM #214H NRM2000360009
Date: Monday, November 6, 2023 9:31:26 AM
Attachments: [image001.png](#)
[image002.png](#)
[Outlook-bhqyr1er.png](#)
[image003.png](#)

Nathaniel Rose
Environmental Technician I
Office: 575.746.8768 x
Cell: 575.706.7071
Fax: 575.746.8905
Emergency: 866.742.0742
Web: www.talonlpe.com



At Talon/LPE, we are quality in all things, including communication. Have a question? Need a quote? Send an email to clientrelations@talonlpe.com.

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Monday, October 16, 2023 11:23 AM
To: Nathaniel Rose <nrose@talonlpe.com>; Chad Hensley <chensley@talonlpe.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] BIGGERS FEDERAL COM #214H NRM2000360009

This message originated from an External Source. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.

Good morning,

Your sampling plan is approved for a five point composite sample not to exceed 500 square feet.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>



Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Thursday, October 12, 2023 8:40 AM

To: Nathaniel Rose <nrose@talonlpe.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: RE: [EXTERNAL] BIGGERS FEDERAL COM #214H NRM2000360009

From: Nathaniel Rose <nrose@talonlpe.com>

Sent: Wednesday, October 11, 2023 4:58 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] BIGGERS FEDERAL COM #214H NRM2000360009

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

To whom it may concern. Talon of behalf of Matador is requesting a 500 sq. foot variance for the BIGGERS FEDERAL COM #214H . Here is the supporting documentation as well.

Location: P-18-25S-35E

Lat & Long: 32.1233199 -103.4020527

Incident Number: NRM2000360009

Chad Hensley

Environmental Project Manager

Office: 575.746.8768 x708

Direct: 575.616.4023

Cell: 575.246.0032

Fax: 575.746.8905

Emergency: 866.742.0742

Web: www.talonlpe.com



At Talon/LPE, we are quality in all things, including communication. Have a question? Need a quote? Send an email to clientrelations@talonlpe.com.



Appendix IV

Photographic Documentation



Biggers Fed Com 214H
Lea County, NM

DIRECTION 271 deg(T)		32.12291°N 103.40183°W	ACCURACY 8 m DATUM WGS84
A wide-angle photograph showing a large, flat, sandy area with a small pool of water in the center. The background shows a line of trees and a clear sky.			
Biggers		2023-08-28 11:21:29-06:00	
Photograph No.1 Description:	Impacted area on pad.		

DIRECTION 4 deg(T)		32.12281°N 103.40184°W	ACCURACY 7 m DATUM WGS84
A photograph showing a dirt road or path leading towards a hill. A white car is parked on the left. The ground is sandy and there are some patches of vegetation.			
Biggers		2023-08-28 11:21:46-06:00	
Photograph No.2 Description:	Impacted area in pasture.		



Biggers Fed Com 214H
Lea County, NM



Talon LPE
Biggers
09.28.2023 01:04 PM
32.12284, -103.4018

Photograph No.3
Description:

One-foot excavation in pasture.



Talon LPE
Biggers
10.03.2023 09:49 AM
32.12315, -103.4022
Unnamed Road, Jal, NM 88252, USA

Photograph No.4
Description:

One-foot excavation on pad.



Biggers Fed Com 214H
Lea County, NM



Photograph No.5 Description:	Backfilled excavation.
---------------------------------	------------------------



Appendix V

Laboratory Analytical Reports

Report to:
Chad Hensley



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Biggers Federal Com 214

Work Order: E308228

Job Number: 23052-0001

Received: 8/30/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/5/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/5/23

Chad Hensley
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Biggers Federal Com 214
Workorder: E308228
Date Received: 8/30/2023 7:30:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/30/2023 7:30:00AM, under the Project Name: Biggers Federal Com 214.

The analytical test results summarized in this report with the Project Name: Biggers Federal Com 214 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 09/05/23 10:03
---	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1 Surface	E308228-01A	Soil	08/28/23	08/30/23	Glass Jar, 4 oz.
S-1 1'	E308228-02A	Soil	08/28/23	08/30/23	Glass Jar, 4 oz.
S-2 Surface	E308228-03A	Soil	08/28/23	08/30/23	Glass Jar, 4 oz.
S-2 1'	E308228-04A	Soil	08/28/23	08/30/23	Glass Jar, 4 oz.
S-3 Surface	E308228-05A	Soil	08/28/23	08/30/23	Glass Jar, 4 oz.
S-3 1'	E308228-06A	Soil	08/28/23	08/30/23	Glass Jar, 4 oz.
S-4 Surface	E308228-07A	Soil	08/28/23	08/30/23	Glass Jar, 4 oz.
S-4 1'	E308228-08A	Soil	08/28/23	08/30/23	Glass Jar, 4 oz.
S-5 Surface	E308228-09A	Soil	08/28/23	08/30/23	Glass Jar, 4 oz.
S-5 1'	E308228-10A	Soil	08/28/23	08/30/23	Glass Jar, 4 oz.
S-6 Surface	E308228-11A	Soil	08/28/23	08/30/23	Glass Jar, 4 oz.
S-6 1'	E308228-12A	Soil	08/28/23	08/30/23	Glass Jar, 4 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/5/2023 10:03:04AM
---	--	----------------------------------

S-1 Surface
E308228-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Benzene	ND	0.0250	1	08/30/23	08/31/23	
Ethylbenzene	ND	0.0250	1	08/30/23	08/31/23	
Toluene	ND	0.0250	1	08/30/23	08/31/23	
o-Xylene	ND	0.0250	1	08/30/23	08/31/23	
p,m-Xylene	ND	0.0500	1	08/30/23	08/31/23	
Total Xylenes	ND	0.0250	1	08/30/23	08/31/23	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/23	08/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.5 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	3590	1250	50	08/30/23	09/01/23	
Oil Range Organics (C28-C36)	6070	2500	50	08/30/23	09/01/23	
Surrogate: n-Nonane	106 %	50-200		08/30/23	09/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335076	
Chloride	ND	20.0	1	08/31/23	08/31/23	



Sample Data

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

Project Name: Biggers Federal Com 214
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
9/5/2023 10:03:04AM

S-1 1'

E308228-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Benzene	ND	0.0250	1	08/30/23	08/31/23	
Ethylbenzene	ND	0.0250	1	08/30/23	08/31/23	
Toluene	ND	0.0250	1	08/30/23	08/31/23	
o-Xylene	ND	0.0250	1	08/30/23	08/31/23	
p,m-Xylene	ND	0.0500	1	08/30/23	08/31/23	
Total Xylenes	ND	0.0250	1	08/30/23	08/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/23	08/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.8 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	09/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	09/01/23	
<i>Surrogate: n-Nonane</i>						
	92.0 %	50-200		08/30/23	09/01/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335076	
Chloride	ND	20.0	1	08/31/23	08/31/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/5/2023 10:03:04AM
---	--	----------------------------------

S-2 Surface
E308228-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Benzene	ND	0.0250	1	08/30/23	08/31/23	
Ethylbenzene	ND	0.0250	1	08/30/23	08/31/23	
Toluene	ND	0.0250	1	08/30/23	08/31/23	
o-Xylene	ND	0.0250	1	08/30/23	08/31/23	
p,m-Xylene	ND	0.0500	1	08/30/23	08/31/23	
Total Xylenes	ND	0.0250	1	08/30/23	08/31/23	
Surrogate: 4-Bromochlorobenzene-PID	92.3 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/23	08/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	36000	1250	50	08/30/23	09/01/23	
Oil Range Organics (C28-C36)	38100	2500	50	08/30/23	09/01/23	
Surrogate: n-Nonane	98.5 %	50-200		08/30/23	09/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335076	
Chloride	29.8	20.0	1	08/31/23	08/31/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/5/2023 10:03:04AM
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S-2 1'

E308228-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Benzene	ND	0.0250	1	08/30/23	08/31/23	
Ethylbenzene	ND	0.0250	1	08/30/23	08/31/23	
Toluene	ND	0.0250	1	08/30/23	08/31/23	
o-Xylene	ND	0.0250	1	08/30/23	08/31/23	
p,m-Xylene	ND	0.0500	1	08/30/23	08/31/23	
Total Xylenes	ND	0.0250	1	08/30/23	08/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/23	08/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	09/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	09/01/23	
<i>Surrogate: n-Nonane</i>						
	88.9 %	50-200		08/30/23	09/01/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335076	
Chloride	ND	20.0	1	08/31/23	08/31/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/5/2023 10:03:04AM
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S-3 Surface
E308228-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Benzene	ND	0.0250	1	08/30/23	08/31/23	
Ethylbenzene	ND	0.0250	1	08/30/23	08/31/23	
Toluene	ND	0.0250	1	08/30/23	08/31/23	
o-Xylene	ND	0.0250	1	08/30/23	08/31/23	
p,m-Xylene	ND	0.0500	1	08/30/23	08/31/23	
Total Xylenes	ND	0.0250	1	08/30/23	08/31/23	
Surrogate: 4-Bromochlorobenzene-PID	93.9 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/23	08/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	105	25.0	1	08/30/23	09/01/23	
Oil Range Organics (C28-C36)	165	50.0	1	08/30/23	09/01/23	
Surrogate: n-Nonane	91.5 %	50-200		08/30/23	09/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335076	
Chloride	ND	20.0	1	08/31/23	08/31/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/5/2023 10:03:04AM
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S-3 1'

E308228-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Benzene	ND	0.0250	1	08/30/23	08/31/23	
Ethylbenzene	ND	0.0250	1	08/30/23	08/31/23	
Toluene	ND	0.0250	1	08/30/23	08/31/23	
o-Xylene	ND	0.0250	1	08/30/23	08/31/23	
p,m-Xylene	ND	0.0500	1	08/30/23	08/31/23	
Total Xylenes	ND	0.0250	1	08/30/23	08/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/23	08/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	09/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	09/01/23	
<i>Surrogate: n-Nonane</i>						
	89.9 %	50-200		08/30/23	09/01/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335076	
Chloride	ND	20.0	1	08/31/23	08/31/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/5/2023 10:03:04AM
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S-4 Surface
E308228-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Benzene	ND	0.0250	1	08/30/23	08/31/23	
Ethylbenzene	ND	0.0250	1	08/30/23	08/31/23	
Toluene	ND	0.0250	1	08/30/23	08/31/23	
o-Xylene	ND	0.0250	1	08/30/23	08/31/23	
p,m-Xylene	ND	0.0500	1	08/30/23	08/31/23	
Total Xylenes	ND	0.0250	1	08/30/23	08/31/23	
Surrogate: 4-Bromochlorobenzene-PID	93.7 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/23	08/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.6 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	2470	1250	50	08/30/23	09/01/23	
Oil Range Organics (C28-C36)	2780	2500	50	08/30/23	09/01/23	
Surrogate: n-Nonane	106 %	50-200		08/30/23	09/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335076	
Chloride	24.9	20.0	1	08/31/23	08/31/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/5/2023 10:03:04AM
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S-4 1'

E308228-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Benzene	ND	0.0250	1	08/30/23	08/31/23	
Ethylbenzene	ND	0.0250	1	08/30/23	08/31/23	
Toluene	ND	0.0250	1	08/30/23	08/31/23	
o-Xylene	ND	0.0250	1	08/30/23	08/31/23	
p,m-Xylene	ND	0.0500	1	08/30/23	08/31/23	
Total Xylenes	ND	0.0250	1	08/30/23	08/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/23	08/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	09/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	09/01/23	
<i>Surrogate: n-Nonane</i>						
	90.0 %	50-200		08/30/23	09/01/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335076	
Chloride	ND	20.0	1	08/31/23	08/31/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/5/2023 10:03:04AM
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S-5 Surface
E308228-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Benzene	ND	0.0250	1	08/30/23	08/31/23	
Ethylbenzene	ND	0.0250	1	08/30/23	08/31/23	
Toluene	ND	0.0250	1	08/30/23	08/31/23	
o-Xylene	ND	0.0250	1	08/30/23	08/31/23	
p,m-Xylene	ND	0.0500	1	08/30/23	08/31/23	
Total Xylenes	ND	0.0250	1	08/30/23	08/31/23	
Surrogate: 4-Bromochlorobenzene-PID	92.9 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/23	08/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.2 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	17900	1250	50	08/30/23	09/01/23	
Oil Range Organics (C28-C36)	29800	2500	50	08/30/23	09/01/23	
Surrogate: n-Nonane	103 %	50-200		08/30/23	09/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335076	
Chloride	ND	20.0	1	08/31/23	08/31/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/5/2023 10:03:04AM
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S-5 1'

E308228-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Benzene	ND	0.0250	1	08/30/23	08/31/23	
Ethylbenzene	ND	0.0250	1	08/30/23	08/31/23	
Toluene	ND	0.0250	1	08/30/23	08/31/23	
o-Xylene	ND	0.0250	1	08/30/23	08/31/23	
p,m-Xylene	ND	0.0500	1	08/30/23	08/31/23	
Total Xylenes	ND	0.0250	1	08/30/23	08/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/23	08/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.7 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	09/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	09/01/23	
<i>Surrogate: n-Nonane</i>						
	91.8 %	50-200		08/30/23	09/01/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335076	
Chloride	ND	20.0	1	08/31/23	08/31/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/5/2023 10:03:04AM
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S-6 Surface
E308228-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Benzene	ND	0.0250	1	08/30/23	08/31/23	
Ethylbenzene	ND	0.0250	1	08/30/23	08/31/23	
Toluene	ND	0.0250	1	08/30/23	08/31/23	
o-Xylene	ND	0.0250	1	08/30/23	08/31/23	
p,m-Xylene	ND	0.0500	1	08/30/23	08/31/23	
Total Xylenes	ND	0.0250	1	08/30/23	08/31/23	
Surrogate: 4-Bromochlorobenzene-PID	93.6 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/23	08/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	2070	1250	50	08/30/23	09/01/23	
Oil Range Organics (C28-C36)	2840	2500	50	08/30/23	09/01/23	
Surrogate: n-Nonane	109 %	50-200		08/30/23	09/01/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2335076	
Chloride	ND	20.0	1	08/31/23	08/31/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/5/2023 10:03:04AM
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S-6 1'

E308228-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Benzene	ND	0.0250	1	08/30/23	08/31/23	
Ethylbenzene	ND	0.0250	1	08/30/23	08/31/23	
Toluene	ND	0.0250	1	08/30/23	08/31/23	
o-Xylene	ND	0.0250	1	08/30/23	08/31/23	
p,m-Xylene	ND	0.0500	1	08/30/23	08/31/23	
Total Xylenes	ND	0.0250	1	08/30/23	08/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/30/23	08/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		08/30/23	08/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	09/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	09/01/23	
<i>Surrogate: n-Nonane</i>						
	91.9 %	50-200		08/30/23	09/01/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335076	
Chloride	ND	20.0	1	08/31/23	08/31/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Biggers Federal Com 214	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	9/5/2023 10:03:04AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335070-BLK1) Prepared: 08/30/23 Analyzed: 08/31/23

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	7.58		8.00		94.7	70-130			

LCS (2335070-BS1) Prepared: 08/30/23 Analyzed: 08/31/23

Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	4.99	0.0250	5.00		99.7	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

Matrix Spike (2335070-MS1) Source: E308228-02 Prepared: 08/30/23 Analyzed: 08/31/23

Benzene	5.12	0.0250	5.00	ND	102	54-133			
Ethylbenzene	5.10	0.0250	5.00	ND	102	61-133			
Toluene	5.16	0.0250	5.00	ND	103	61-130			
o-Xylene	5.11	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			

Matrix Spike Dup (2335070-MSD1) Source: E308228-02 Prepared: 08/30/23 Analyzed: 08/31/23

Benzene	5.12	0.0250	5.00	ND	102	54-133	0.0391	20	
Ethylbenzene	5.11	0.0250	5.00	ND	102	61-133	0.140	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	0.0678	20	
o-Xylene	5.11	0.0250	5.00	ND	102	63-131	0.0626	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	0.299	20	
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131	0.221	20	
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Biggers Federal Com 214	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	9/5/2023 10:03:04AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335070-BLK1) Prepared: 08/30/23 Analyzed: 08/31/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.8	70-130			

LCS (2335070-BS2) Prepared: 08/30/23 Analyzed: 08/31/23

Gasoline Range Organics (C6-C10)	52.4	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

Matrix Spike (2335070-MS2) Source: E308228-02 Prepared: 08/30/23 Analyzed: 08/31/23

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.5	70-130			

Matrix Spike Dup (2335070-MSD2) Source: E308228-02 Prepared: 08/30/23 Analyzed: 08/31/23

Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130	1.18	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Biggers Federal Com 214	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	9/5/2023 10:03:04AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335067-BLK1)					Prepared: 08/30/23 Analyzed: 08/31/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

LCS (2335067-BS1)					Prepared: 08/30/23 Analyzed: 08/31/23				
Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132			
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

Matrix Spike (2335067-MS1)					Source: E308211-01		Prepared: 08/30/23 Analyzed: 08/31/23		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	43.9		50.0		87.9	50-200			

Matrix Spike Dup (2335067-MSD1)					Source: E308211-01		Prepared: 08/30/23 Analyzed: 08/31/23		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	1.95	20	
Surrogate: n-Nonane	46.6		50.0		93.2	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Federal Com 214 Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/5/2023 10:03:04AM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335076-BLK1)					Prepared: 08/31/23 Analyzed: 08/31/23				
Chloride	ND	20.0							
LCS (2335076-BS1)					Prepared: 08/31/23 Analyzed: 08/31/23				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2335076-MS1)					Source: E308228-01		Prepared: 08/31/23 Analyzed: 08/31/23		
Chloride	247	20.0	250	ND	98.8	80-120			
Matrix Spike Dup (2335076-MSD1)					Source: E308228-01		Prepared: 08/31/23 Analyzed: 08/31/23		
Chloride	250	20.0	250	ND	100	80-120	1.20	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:	Biggers Federal Com 214	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Chad Hensley	09/05/23 10:03

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Client: <u>Matador</u>					Bill To					Lab Use Only					TAT				EPA Program			
Project: <u>Biggers Federal Com 214</u>					Attention:					Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA		
Project Manager: <u>C. Hengstey</u>					Address:					E 308228		23052-0001						X				
Address: <u>408 W. Texas</u>					City, State, Zip					Analysis and Method												RCRA
City, State, Zip: <u>Artesia, NM, 88210</u>					Phone:					DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005- TX	State				
Phone: <u>575-746-8768</u>					Email:													NM	CO	UT	AZ	TX
Email: <u>rose@TalonLPE.com</u>					Report due by:													X				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks																
1010	8-28-23	Soil	1	S-1	1	Surface																
1014					2	1"																
1030				S-2	3	Surface																
1037					4	1"																
1041				S-3	5	Surface																
1045					6	1"																
1056				S-4	7	Surface																
1101					8	1"																
1109				S-5	9	Surface																
1114					10	1"																
Additional Instructions:																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only										
<u>[Signature]</u>		8-28-23				<u>Michelle Campbell</u>		8-29-23		1435		Received on ice: <u>(Y)</u> N										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3										
<u>Michelle Campbell</u>		8-29-23		1600		<u>Andra</u>		8-29-23		1730												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C										
<u>Andra</u>		8-29-23		2315		<u>Caitlin Mann</u>		8/30/23		7:30		4										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
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: 8/30/2023 9:02:51AM

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:	08/30/23 07:30	Work Order ID:	E308228
Phone:	(972) 371-5200	Date Logged In:	08/30/23 08:54	Logged In By:	Caitlin Mars
Email:		Due Date:	09/06/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Chad Hensley



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Biggers

Work Order: E310113

Job Number: 23042-0001

Received: 10/17/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/23/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 10/23/23

Chad Hensley
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Biggers
Workorder: E310113
Date Received: 10/17/2023 8:15:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/17/2023 8:15:00AM, under the Project Name: Biggers.

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

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

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

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

Respectfully,

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

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Laboratory Administrator
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/23 11:37
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW-1	E310113-01A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
SW-2	E310113-02A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
SW-3	E310113-03A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
SW-4	E310113-04A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
SW-5	E310113-05A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
SW-6	E310113-06A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-1 1'	E310113-07A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-2 1'	E310113-08A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-3 1'	E310113-09A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-4 1'	E310113-10A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-5 1'	E310113-11A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-6 1'	E310113-12A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-7 1'	E310113-13A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-8 1'	E310113-14A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-9 1'	E310113-15A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-10 1'	E310113-16A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-11 1'	E310113-17A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-12 1'	E310113-18A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-13 1'	E310113-19A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-14 1'	E310113-20A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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SW-1

E310113-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	90.6 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	132	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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SW-2

E310113-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	96.7 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.6 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	88.0 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	146	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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SW-3

E310113-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.4 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	87.2 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	139	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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SW-4

E310113-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	97.6 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.9 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	92.2 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	138	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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SW-5

E310113-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	97.9 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	91.5 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	116	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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SW-6

E310113-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	97.1 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	93.0 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	140	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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C-1 1'

E310113-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	96.7 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.3 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	95.9 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	130	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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C-2 1'

E310113-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	97.8 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.8 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	91.8 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	122	20.0	1	10/18/23	10/19/23	



Sample Data

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

Project Name: Biggers
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
10/23/2023 11:37:38AM

C-3 1'

E310113-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342040
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
<i>Surrogate: n-Nonane</i>						
	92.2 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2342057
Chloride	133	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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C-4 1'

E310113-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	97.9 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.5 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	95.6 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	140	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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C-5 1'

E310113-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342040
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.8 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342044
Diesel Range Organics (C10-C28)	27.7	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
<i>Surrogate: n-Nonane</i>						
	95.6 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2342057
Chloride	151	20.0	1	10/18/23	10/19/23	



Sample Data

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

Project Name: Biggers
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
10/23/2023 11:37:38AM

C-6 1'

E310113-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342040
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
<i>Surrogate: n-Nonane</i>						
	90.8 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2342057
Chloride	ND	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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C-7 1'

E310113-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	90.5 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	ND	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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C-8 1'

E310113-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	96.1 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	ND	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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C-9 1'

E310113-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	95.9 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.3 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	90.4 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	ND	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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C-10 1'
E310113-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	95.9 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.1 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	89.8 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	ND	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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C-11 1'
E310113-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	86.6 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	22.5	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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C-12 1'
E310113-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.1 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	89.8 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	30.0	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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C-13 1'
E310113-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342040
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342040
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342044
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
<i>Surrogate: n-Nonane</i>						
	97.7 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2342057
Chloride	ND	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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C-14 1'

E310113-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Benzene	ND	0.0250	1	10/17/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/19/23	
Toluene	ND	0.0250	1	10/17/23	10/19/23	
o-Xylene	ND	0.0250	1	10/17/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.9 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.6 %	70-130		10/17/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342044	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
<i>Surrogate: n-Nonane</i>	98.9 %	50-200		10/17/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2342057	
Chloride	ND	20.0	1	10/18/23	10/19/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Biggers	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23042-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	10/23/2023 11:37:38AM

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 (2342040-BLK1) Prepared: 10/17/23 Analyzed: 10/18/23

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 (2342040-BS1) Prepared: 10/17/23 Analyzed: 10/19/23

Benzene	4.65	0.0250	5.00		93.0	70-130			
Ethylbenzene	4.53	0.0250	5.00		90.7	70-130			
Toluene	4.70	0.0250	5.00		93.9	70-130			
o-Xylene	4.67	0.0250	5.00		93.5	70-130			
p,m-Xylene	9.38	0.0500	10.0		93.8	70-130			
Total Xylenes	14.1	0.0250	15.0		93.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130			

Matrix Spike (2342040-MS1) Source: E310113-03 Prepared: 10/17/23 Analyzed: 10/19/23

Benzene	4.65	0.0250	5.00	ND	93.0	54-133			
Ethylbenzene	4.53	0.0250	5.00	ND	90.7	61-133			
Toluene	4.70	0.0250	5.00	ND	93.9	61-130			
o-Xylene	4.67	0.0250	5.00	ND	93.3	63-131			
p,m-Xylene	9.37	0.0500	10.0	ND	93.7	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.7	70-130			

Matrix Spike Dup (2342040-MSD1) Source: E310113-03 Prepared: 10/17/23 Analyzed: 10/19/23

Benzene	4.57	0.0250	5.00	ND	91.5	54-133	1.62	20	
Ethylbenzene	4.46	0.0250	5.00	ND	89.2	61-133	1.62	20	
Toluene	4.63	0.0250	5.00	ND	92.5	61-130	1.52	20	
o-Xylene	4.61	0.0250	5.00	ND	92.2	63-131	1.23	20	
p,m-Xylene	9.22	0.0500	10.0	ND	92.2	63-131	1.58	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131	1.46	20	
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Biggers	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23042-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	10/23/2023 11:37:38AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2342040-BLK1) Prepared: 10/17/23 Analyzed: 10/18/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

LCS (2342040-BS2) Prepared: 10/17/23 Analyzed: 10/19/23

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			

Matrix Spike (2342040-MS2) Source: E310113-03 Prepared: 10/17/23 Analyzed: 10/19/23

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	70-130			

Matrix Spike Dup (2342040-MSD2) Source: E310113-03 Prepared: 10/17/23 Analyzed: 10/19/23

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.9	70-130	0.762	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Biggers	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23042-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	10/23/2023 11:37:38AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2342044-BLK1) Prepared: 10/17/23 Analyzed: 10/19/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.7		50.0		93.4	50-200			

LCS (2342044-BS1) Prepared: 10/17/23 Analyzed: 10/19/23

Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	49.0		50.0		98.0	50-200			

Matrix Spike (2342044-MS1) Source: E310113-06 Prepared: 10/17/23 Analyzed: 10/19/23

Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	47.5		50.0		95.1	50-200			

Matrix Spike Dup (2342044-MSD1) Source: E310113-06 Prepared: 10/17/23 Analyzed: 10/19/23

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	3.49	20	
Surrogate: n-Nonane	48.9		50.0		97.9	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/23/2023 11:37:38AM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2342057-BLK1)					Prepared: 10/18/23 Analyzed: 10/19/23				
Chloride	ND	20.0							
LCS (2342057-BS1)					Prepared: 10/18/23 Analyzed: 10/19/23				
Chloride	264	20.0	250		106	90-110			
Matrix Spike (2342057-MS1)					Source: E310113-05		Prepared: 10/18/23 Analyzed: 10/19/23		
Chloride	394	20.0	250	116	111	80-120			
Matrix Spike Dup (2342057-MSD1)					Source: E310113-05		Prepared: 10/18/23 Analyzed: 10/19/23		
Chloride	392	20.0	250	116	110	80-120	0.687	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:	Biggers	
5400 LBJ Freeway, Suite 1500	Project Number:	23042-0001	Reported:
Dallas TX, 75240	Project Manager:	Chad Hensley	10/23/23 11:37

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: <u>Matador</u>					Bill To					Lab Use Only					TAT				EPA Program					
Project: <u>T3 riggers</u>					Attention: <u>Talpa LPE</u>					Lab WO# <u>E310113</u>					Job Number <u>23042-0001</u>				1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>C. Hershley</u>					Address:					Analysis and Method									RCRA					
Address: <u>408 W. Texas</u>					City, State, Zip																			
City, State, Zip <u>Artesia, NM 88210</u>					Phone:														State					
Phone: <u>575-76-8768</u>					Email:																			
Email: <u>1108@TalpaLPE.com</u>																								
Report due by:																								

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005-TX					Remarks
1020	10-16-23	Soil	1	SW-1	1	X	X	X			X							
1026				SW-2	2													
1031				SW-3	3													
1036				SW-4	4													
1037				SW-5	5													
1042				SW-6	6													
1048				C-1	7													
1051				C-2	8													
1056				C-3	9													
1059				C-4	10	X	X	X			X							

Additional Instructions:

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.

Relinquished by: (Signature) [Signature] Date 10-16-23 Time 1448 Received by: (Signature) [Signature] Date 10-16-23 Time 1448

Relinquished by: (Signature) [Signature] Date 10-16-23 Time 1448 Received by: (Signature) [Signature] Date 10-16-23 Time 1730

Relinquished by: (Signature) [Signature] Date 10-16-23 Time 2315 Received by: (Signature) [Signature] Date 10-17-23 Time 8:15

Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____

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.

Project Information

Chain of Custody

Client: <u>Matador</u> Project: <u>Diggers</u> Project Manager: <u>C. Hensley</u> Address: <u>408 W. Texas</u> City, State, Zip: <u>Astoria NM 88210</u> Phone: <u>575-746-8768</u> Email: <u>noor@matadoripc.com</u> Report due by:				Bill To Attention: <u>Taber IPC</u> Address: City, State, Zip Phone: Email:				Lab Use Only Lab WO#: <u>E-310113</u> Job Number: <u>23042-0001</u>				TAT 1D 2D 3D Standard				EPA Program CWA SDWA	
Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC - NM TCEQ 1005-TX										State NM CO UT AZ TX				RCRA			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005-TX	Remarks			
1105	10/16/23	Soil	1	C-5 1'	11	X	X	X		X							
1112				C-6 1'	12												
1114				C-7 1'	13												
1119				C-8 1'	14												
1121				C-9 1'	15												
1127				C-10 1'	16												
1131				C-11 1'	17												
1134				C-12 1'	18												
1139				C-13 1'	19												
1142				C-14 1'	20												
Additional Instructions:																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only:		Received on ice: Y / N							
[Signature]		10/16/23	14:48	[Signature]		10/16/23	14:48										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time			T1 T2 T3							
[Signature]		10/16/23	14:48	[Signature]		10/16/23	17:30										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time			AVG Temp °C 4							
[Signature]		10/16/23	23:15	[Signature]		10/17/23	8:15										
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.																	


envirotec

Envirotech Analytical Laboratory

Printed: 10/17/2023 12:58:51PM

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:	10/17/23 08:15	Work Order ID:	E310113
Phone:	(972) 371-5200	Date Logged In:	10/17/23 09:09	Logged In By:	Caitlin Mars
Email:		Due Date:	10/23/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

Project Biggers has been separated into 2 reports due to sample volume. Workorders are as follows: E310113 & E310114.

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

Date



envirotech Inc.

Report to:
Chad Hensley



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Biggers

Work Order: E310114

Job Number: 23042-0001

Received: 10/17/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/20/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/20/23

Chad Hensley
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Biggers
Workorder: E310114
Date Received: 10/17/2023 8:15:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/17/2023 8:15:00AM, under the Project Name: Biggers.

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

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/23 09:41
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-15 1'	E310114-01A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-16 1'	E310114-02A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-17 1'	E310114-03A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-18 1'	E310114-04A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-19 1'	E310114-05A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-20 1'	E310114-06A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-21 1'	E310114-07A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-22 1'	E310114-08A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-23 1'	E310114-09A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-24 1'	E310114-10A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-25 1'	E310114-11A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-26 1'	E310114-12A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-27 1'	E310114-13A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-28 1'	E310114-14A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.
C-29 1'	E310114-15A	Soil	10/16/23	10/17/23	Glass Jar, 2 oz.

Sample Data

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

Project Name: Biggers
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
10/20/2023 9:41:17AM

C-15 1'

E310114-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		109 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		109 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/18/23	
Surrogate: n-Nonane		90.6 %	50-200	10/18/23	10/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	ND	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/2023 9:41:17AM
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C-16 1'
E310114-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		108 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		108 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/18/23	
Surrogate: n-Nonane		92.2 %	50-200	10/18/23	10/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	ND	20.0	1	10/18/23	10/19/23	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/2023 9:41:17AM
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C-17 1'
E310114-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		109 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		109 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/18/23	
Surrogate: n-Nonane		90.5 %	50-200	10/18/23	10/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	ND	20.0	1	10/18/23	10/19/23	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/2023 9:41:17AM
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C-18 1'
E310114-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		110 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		91.9 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		110 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/18/23	
Surrogate: n-Nonane		89.2 %	50-200	10/18/23	10/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	ND	20.0	1	10/18/23	10/18/23	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/2023 9:41:17AM
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C-19 1'
E310114-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		116 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		109 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		116 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		109 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/18/23	
Surrogate: n-Nonane		107 %	50-200	10/18/23	10/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	34.9	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/2023 9:41:17AM
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C-20 1'
E310114-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		108 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		108 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/18/23	
Surrogate: n-Nonane		94.6 %	50-200	10/18/23	10/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	31.3	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/2023 9:41:17AM
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C-21 1'
E310114-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		110 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		113 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		110 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/18/23	
Surrogate: n-Nonane		103 %	50-200	10/18/23	10/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	25.9	20.0	1	10/18/23	10/19/23	



Sample Data

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

Project Name: Biggers
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
10/20/2023 9:41:17AM

C-22 1'

E310114-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		109 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		109 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/19/23	
Surrogate: n-Nonane		89.9 %	50-200	10/18/23	10/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	27.9	20.0	1	10/18/23	10/19/23	



Sample Data

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

Project Name: Biggers
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
10/20/2023 9:41:17AM

C-23 1'

E310114-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		110 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		110 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/19/23	
Surrogate: n-Nonane		100 %	50-200	10/18/23	10/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	ND	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/2023 9:41:17AM
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C-24 1'

E310114-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		110 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		110 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/19/23	
Surrogate: n-Nonane		96.4 %	50-200	10/18/23	10/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	134	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/2023 9:41:17AM
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C-25 1'
E310114-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		109 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		109 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/19/23	
Surrogate: n-Nonane		101 %	50-200	10/18/23	10/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	128	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/2023 9:41:17AM
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C-26 1'
E310114-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		108 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		115 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		108 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/19/23	
Surrogate: n-Nonane		96.3 %	50-200	10/18/23	10/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	126	20.0	1	10/18/23	10/19/23	



Sample Data

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

Project Name: Biggers
Project Number: 23042-0001
Project Manager: Chad Hensley

Reported:
10/20/2023 9:41:17AM

C-27 1'

E310114-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		91.1 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		108 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		91.1 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		108 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	25.9	25.0	1	10/18/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/19/23	
Surrogate: n-Nonane		103 %	50-200	10/18/23	10/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	145	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/2023 9:41:17AM
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C-28 1'
E310114-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		110 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		110 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/19/23	
Surrogate: n-Nonane		97.3 %	50-200	10/18/23	10/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	135	20.0	1	10/18/23	10/19/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/2023 9:41:17AM
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C-29 1'
E310114-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		116 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		110 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342045
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		116 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		110 %	70-130	10/17/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342051
Diesel Range Organics (C10-C28)	27.7	25.0	1	10/18/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/19/23	
Surrogate: n-Nonane		107 %	50-200	10/18/23	10/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342056
Chloride	129	20.0	1	10/18/23	10/19/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Biggers	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23042-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	10/20/2023 9:41:17AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2342045-BLK1) Prepared: 10/17/23 Analyzed: 10/18/23

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: Bromofluorobenzene	0.584		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.447		0.500		89.3	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

LCS (2342045-BS1) Prepared: 10/17/23 Analyzed: 10/18/23

Benzene	2.65	0.0250	2.50		106	70-130			
Ethylbenzene	2.70	0.0250	2.50		108	70-130			
Toluene	2.67	0.0250	2.50		107	70-130			
o-Xylene	2.67	0.0250	2.50		107	70-130			
p,m-Xylene	5.45	0.0500	5.00		109	70-130			
Total Xylenes	8.12	0.0250	7.50		108	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			

Matrix Spike (2342045-MS1) Source: E310114-05 Prepared: 10/17/23 Analyzed: 10/18/23

Benzene	2.65	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.68	0.0250	2.50	ND	107	45-135			
Toluene	2.65	0.0250	2.50	ND	106	48-130			
o-Xylene	2.72	0.0250	2.50	ND	109	43-135			
p,m-Xylene	5.51	0.0500	5.00	ND	110	43-135			
Total Xylenes	8.23	0.0250	7.50	ND	110	43-135			
Surrogate: Bromofluorobenzene	0.603		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.548		0.500		110	70-130			

Matrix Spike Dup (2342045-MSD1) Source: E310114-05 Prepared: 10/17/23 Analyzed: 10/18/23

Benzene	2.60	0.0250	2.50	ND	104	48-131	2.08	23	
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135	0.637	27	
Toluene	2.62	0.0250	2.50	ND	105	48-130	1.46	24	
o-Xylene	2.62	0.0250	2.50	ND	105	43-135	3.85	27	
p,m-Xylene	5.32	0.0500	5.00	ND	106	43-135	3.57	27	
Total Xylenes	7.94	0.0250	7.50	ND	106	43-135	3.66	27	
Surrogate: Bromofluorobenzene	0.590		0.500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.553		0.500		111	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Biggers	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23042-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	10/20/2023 9:41:17AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2342045-BLK1) Prepared: 10/17/23 Analyzed: 10/18/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.584		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.447		0.500		89.3	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

LCS (2342045-BS2) Prepared: 10/17/23 Analyzed: 10/18/23

Gasoline Range Organics (C6-C10)	58.3	20.0	50.0		117	70-130			
Surrogate: Bromofluorobenzene	0.595		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			

Matrix Spike (2342045-MS2) Source: E310114-05 Prepared: 10/17/23 Analyzed: 10/18/23

Gasoline Range Organics (C6-C10)	56.6	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.556		0.500		111	70-130			

Matrix Spike Dup (2342045-MSD2) Source: E310114-05 Prepared: 10/17/23 Analyzed: 10/18/23

Gasoline Range Organics (C6-C10)	56.8	20.0	50.0	ND	114	70-130	0.377	20	
Surrogate: Bromofluorobenzene	0.577		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.556		0.500		111	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Biggers	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23042-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	10/20/2023 9:41:17AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2342051-BLK1) Prepared: 10/18/23 Analyzed: 10/18/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.8		50.0		89.7	50-200			

LCS (2342051-BS1) Prepared: 10/18/23 Analyzed: 10/18/23

Diesel Range Organics (C10-C28)	248	25.0	250		99.2	38-132			
Surrogate: n-Nonane	46.2		50.0		92.4	50-200			

Matrix Spike (2342051-MS1) Source: E310114-05 Prepared: 10/18/23 Analyzed: 10/18/23

Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	49.0		50.0		98.1	50-200			

Matrix Spike Dup (2342051-MSD1) Source: E310114-05 Prepared: 10/18/23 Analyzed: 10/18/23

Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132	4.81	20	
Surrogate: n-Nonane	47.3		50.0		94.7	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Biggers Project Number: 23042-0001 Project Manager: Chad Hensley	Reported: 10/20/2023 9:41:17AM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2342056-BLK1)					Prepared: 10/18/23 Analyzed: 10/18/23				
Chloride	ND	20.0							
LCS (2342056-BS1)					Prepared: 10/18/23 Analyzed: 10/18/23				
Chloride	265	20.0	250		106	90-110			
Matrix Spike (2342056-MS1)					Source: E310114-04		Prepared: 10/18/23 Analyzed: 10/18/23		
Chloride	257	20.0	250	ND	103	80-120			
Matrix Spike Dup (2342056-MSD1)					Source: E310114-04		Prepared: 10/18/23 Analyzed: 10/19/23		
Chloride	265	20.0	250	ND	106	80-120	2.86	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:	Biggers	
5400 LBJ Freeway, Suite 1500	Project Number:	23042-0001	Reported:
Dallas TX, 75240	Project Manager:	Chad Hensley	10/20/23 09:41

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

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

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



Client: <u>Mater</u>		Bill To		Lab Use Only		TAT		EPA Program						
Project: <u>Biggers</u>		Attention: <u>Tarben IPE</u>		Lab WO#: <u>E310114</u>		Job Number: <u>23042-0001</u>		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: <u>P. Hershey</u>		Address:		Analysis and Method										
Address: <u>408 W Texas</u>		City, State, Zip											RCRA	
City, State, Zip: <u>Artesia NM 88210</u>		Phone:												
Phone: <u>575-746-0768</u>		Email:												
Email: <u>mro@tarben-pe.com</u>		Report due by:												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005-TX	Remarks
1145	10-16-23	soil	1	C-15	1	X	X	X			X			
1147				C-16	2									
1151				C-17	3									
1159				C-18	4									
1200				C-19	5									
1203				C-20	6									
1205				C-21	7									
1208				C-22	8									
1211				C-23	9									
1211				C-24	10									
Additional Instructions:														
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.														
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.														
Relinquished by: (Signature)		Date	Time	Sampled by: (Signature)		Date	Time	Lab Use Only						
		10-16-23	1448			10-16-23	1448	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1						
		10-16-23	1448			10-16-23	1730	T2						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T3						
		10-16-23	2315			10-17-23	8:15	AVG Temp °C <u>4</u>						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time							
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

Client: <u>Mattador</u>		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Biggers</u>		Attention: <u>Talon IPE</u>		Lab WO# <u>E310114</u>		Job Number <u>23042-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>C. Hensley</u>		Address:		Analysis and Method								RCRA	
Address: <u>408 W. Texas</u>		City, State, Zip										State	
City, State, Zip: <u>Artesia, NM, 88210</u>		Phone:										NM CO UT AZ TX	
Phone: <u>575-746-8768</u>		Email:										Remarks	
Email: <u>hensley@talonipe.com</u>		Report due by:											

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/OI	GRO/DI	BTEX by	VOC by	Metals	Chloride	BGDOC	TCEQ 100						Remarks
1226	10-16-23	Soil	1	C-25 11	11	X	X	X			X								
1231	1	1	1	C-26 11	12	1	1	1			1								
1251	1	1	1	C-27 11	13	1	1	1			1								
1256	1	1	1	C-28 11	14	1	1	1			1								
1258	1	X	X	C-29 11	15	X	X	X			X								

Additional Instructions:

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:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only: Received on ice: <u>Y / N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	10-16-23	1448	Received by: (Signature)	10-16-23	1730	
Relinquished by: (Signature)	10-16-23	2315	Received by: (Signature)	10-17-23	8:15	
Relinquished by: (Signature)			Received by: (Signature)			

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.

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

QUESTIONS

Action 298650

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 298650
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2000360009
Incident Name	NRM2000360009 BIGGERS FEDERAL COM #214H @ 30-025-44483
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-44483] BIGGERS FEDERAL COM #214H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BIGGERS FEDERAL COM #214H
Date Release Discovered	10/27/2019
Surface Owner	Federal

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	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	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: Fire Tank (Any) Other (Specify) Released: 315 BBL Recovered: 0 BBL Lost: 315 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)	Not answered.

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QUESTIONS, Page 2

Action 298650

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	298650
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	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: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 01/02/2024
--	--

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QUESTIONS, Page 3

Action 298650

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	298650
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	29.8
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	74100
GRO+DRO	(EPA SW-846 Method 8015M)	36000
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	08/28/2023
On what date will (or did) the final sampling or liner inspection occur	10/16/2023
On what date will (or was) the remediation complete(d)	10/16/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	15861
What is the estimated volume (in cubic yards) that will be remediated	616

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 298650

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 298650
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Lea Land, LLC
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>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>	
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: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 01/02/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 298650

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:
	228937
	Action Number:
	298650
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

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

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QUESTIONS, Page 6

Action 298650

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	298650
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	298651
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/13/2023
What was the (estimated) number of samples that were to be gathered	34
What was the sampling surface area in square feet	15861

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	15861
What was the total volume (cubic yards) remediated	616
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Release has been fully remediated.

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

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

I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 01/02/2024
--	--

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QUESTIONS, Page 7

Action 298650

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 298650
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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 298650

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 298650
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/19/2024