



## Remediation Summary and Closure Request

**Matador Resources Company**

**Dr K South Tank Battery**

**Eddy County, New Mexico**

**Unit Letter "M", Section 24, Township 23 South, Range 27 East**

**Latitude 32.285307 North, Longitude 104.149520 West**

**NMOCD Incident # NAPP2126643846**

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Prepared For:

Matador Resources Company  
5400 LBJ Freeway Ste 1500  
Dallas, TX 75240

Prepared By:

Hungry Horse, LLC  
4024 Plains Hwy  
Lovington, NM 88260  
Office: (575) 393-3386

**October 2025**

Daniel Dominguez  
Environmental Director  
ddominguez@hungry-horse.com

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## HUNGRY HORSE, LLC

The following *Remediation Summary and Closure Request* serves as a condensed update on field activities undertaken at the afore referenced Site.

### Background:

The site is located in Unit Letter M (SW/SW), Section 24, Township 23 South, Range 27 East, approximately three miles West of Loving, in Eddy County, New Mexico. The site is located on Private land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The location is an active production pad; Latitude 32.285307 North, Longitude 104.149520 West. The NMOCD Form C-141 indicated that on September 22, 2021 approximately 16.5 bbls of produced water were released due to corrosion on a T joint. A crew was dispatched to the release site to manage the release. No fluid was recovered. In 2021 the release area was delineated by Vertex. In 2023 the area was delineated, excavated, lined, and backfilled by Talon. However, closure was denied citing the site was not approved for a liner installation. Vertex and Talon sampling analytical data provided in Attachment VI. Previously submitted information is available on the NMOCD Permitting Portal.

### NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is located in a high Karst designated area. Depth to groundwater information is provided as Attachment III and the results are depicted on Figures 2 and 3.

Three wells are located within a half mile radius of the location. However, as the site is located in a high Karst designated area, the site will be remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
<50'	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

A United States Department of Agriculture (USDA) Web Soil Survey was completed to determine soil types in the area of remediation. Web Soil Survey indicates the area is located in the Karro loam soil type comprised of loam soil with 0 to 1 percent slopes. Landowner approved seed mix will be utilized for seeding after these completed remediation activities. Karst, Wetland, and Soil Maps are provided as Attachment I.



## Remediation Activities:

As per NMOCD closure denial, the release area was re-excavated, and the liner removed and disposed. Matador then contacted Hungry Horse to review the denied closure at the Dr K South Tank Battery. Hungry Horse mobilized on site with Matador personnel on September 4, 2025 to determine next steps. At this time the excavation was approximately four and half feet deep with a deeper 'U' shaped area that extended to approximately six feet bgs. The excavated area is depicted in Figure 4.

On September 5, 2025, Hungry Horse personnel arrived on location to delineate the excavation. During delineation, hand augered sample bores were advanced throughout the 'U' shaped excavated area in an effort to determine the vertical extent of contamination. These sample locations are identified by SP designation. During the advancement of hand augered sample bores, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit. The shallower four and half foot deep area in the middle of the 'U' shape was also field tested. Field testing indicated chloride concentrations were below the NMOCD Closure Criteria.

Based on field observations and field test data, four representative soil samples were selected for laboratory analysis. Delineation soil samples SP1 through SP4, all at nine feet bgs, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

On September 17 and 18, 2025, the 'U' shaped area was excavated further to a final depth of approximately nine feet bgs. Excavated contaminated soil was hauled to an NMOCD approved disposal facility

On September 17, 2025, Hungry Horse notified OCD that closure sampling would occur at the Dr K South location on September 22, 2025. Correspondence is provided as Attachment II.

On September 22, 2025, twenty-eight composite confirmation soil samples were collected from each excavation floor and sidewalls, with each sample representing no more than 200 square feet. One soil sample was also collected from the backfill pit. Soil samples FL1 through FL18, SW1 – SW10, and Backfill, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

Based upon laboratory analytical results from confirmation soil samples, the excavated area was then backfilled with locally sourced, clean, non-impacted soil.

Closure Floor Sample Map and Closure Sidewall Sample Map are provided as Figure 5 and Figure 6, respectively. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment V.



## **Sampling Procedure and Identification:**

During confirmation sampling, five-point composite soil samples were collected from the floor of the excavation, each collected sample representing an area no greater than 200 square feet. These sample locations are identified by FL designation. Five-point composite soil samples were also collected from the sidewalls of the excavation, with each collected sample representing an area no greater than 200 square feet. These sample locations are identified by SW designation.

Closure Sidewall Sample Map, provided as Figure 6, depicts sidewall sample boundaries. Soil samples were jarred, iced, and delivered to the laboratory for analysis of BTEX, TPH, and chloride.

## **Remediation and Seeding:**

Based upon laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, clean, non-impacted soil. The area was contoured to achieve erosion control and preserve surface water flow.

The affected area will be scarified to aid with infiltration, overall success of seed germination, and plant establishment. The affected area will then be seeded, via hand broadcast at double the recommended rate, with the landowner approved seed mixture, free of noxious weeds, during the first favorable growing season following these completed remediation activities. Site will also be monitored for growth and noxious weed management on an annual basis until desired vegetation cover is achieved.

## **Closure Request:**

Sampling activities were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from closure confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results, Matador Resources Company respectfully requests closure of the Dr K South location, NAPP2126643846.

## **Limitations:**

Hungry Horse, LLC, has prepared this *Remediation Summary and Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



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**Distribution:**

**Matador Resources Company**

5400 LBJ Freeway Ste 1500

Dallas, TX 75240

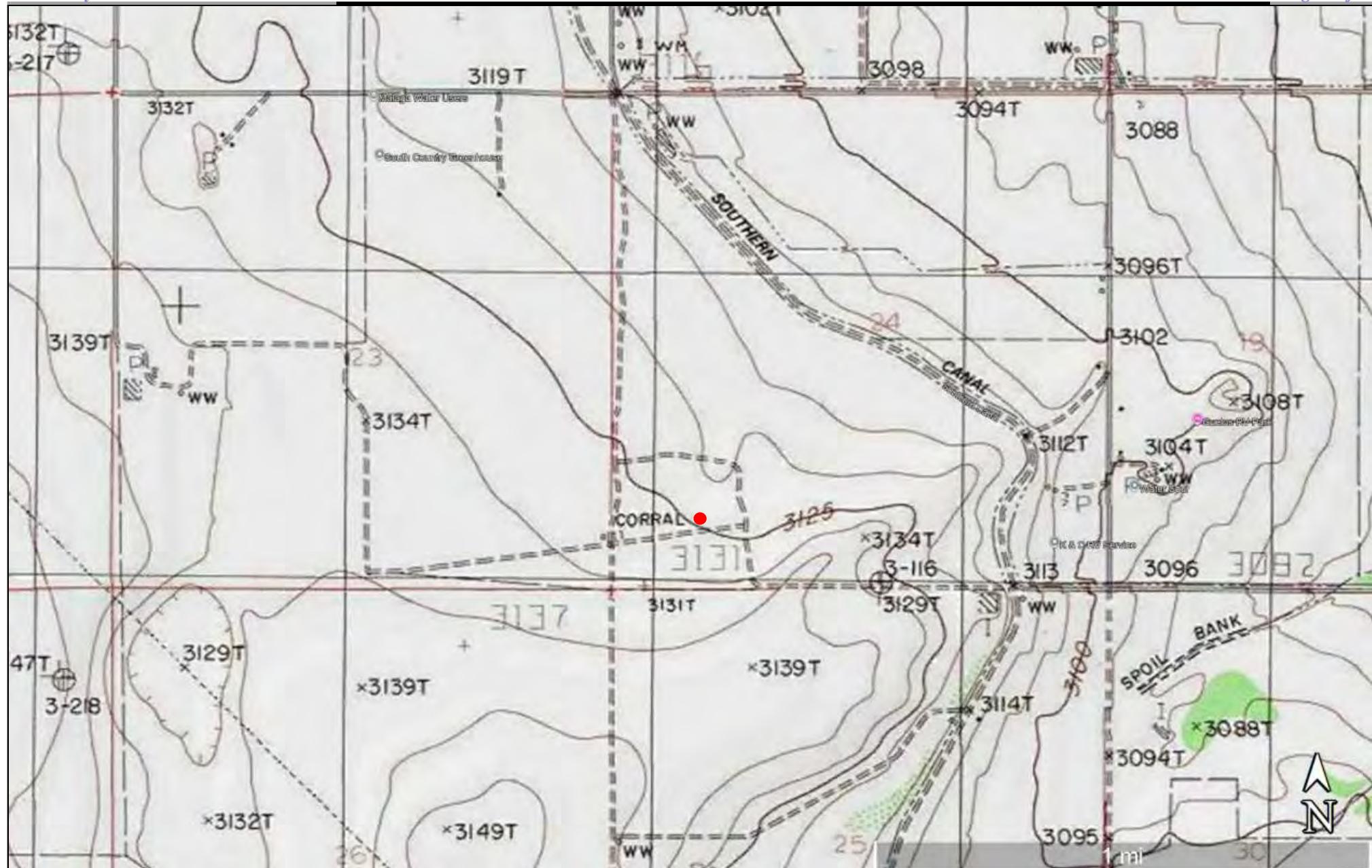
**New Mexico Energy, Minerals and Natural Resources Department**

Oil Conservation Division, District 2

811 S. First St.

Artesia, NM 88210

## Figures

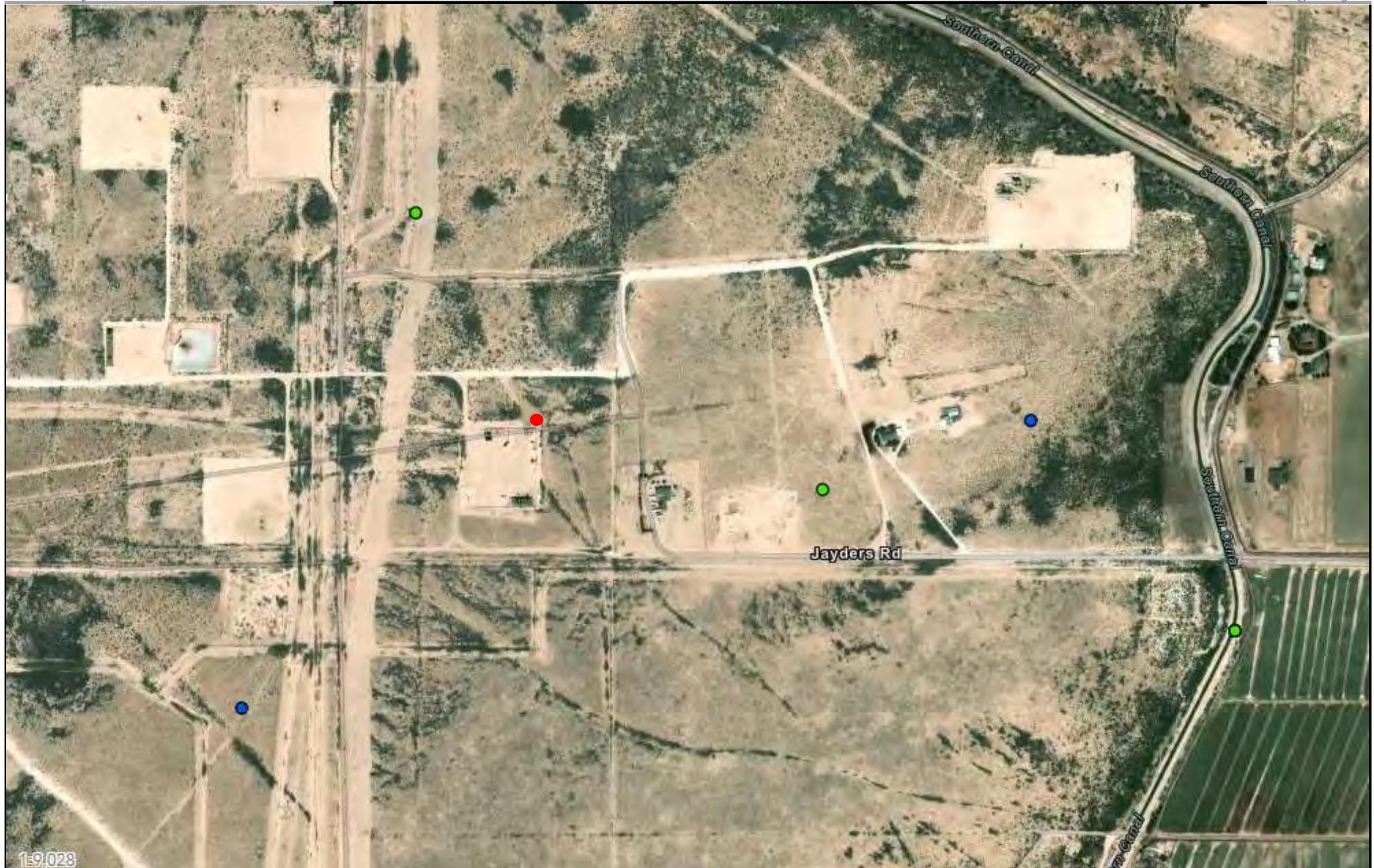


**Figure 1**  
 Topographic Map  
 Matador Resources Company  
 Dr K South  
 GPS: 32.285307, -104.14952  
 Eddy County

Legend:  
 ● Dr K South Location

Drafted: dd  
 Checked: jh  
 Date: 9/15/25



**Figure 2**

OSE POD Locations Map  
Matador Resources Company  
Dr K South  
GPS: 32.285307, -104.14952  
Eddy County

**Legend:**

- Dr K South Location
- Active OSE Water Well
- Pending OSE Water Well

Drafted: dd  
Checked: jh  
Date: 9/15/25



**Figure 3**

USGS Well Locations Map  
Matador Resources Company  
Dr K South  
GPS: 32.285307, -104.14952  
Eddy County

**Legend:**

- Dr K South Location
- ▲ USGS Well Location

Drafted: dd  
Checked: jh  
Date: 9/15/25



**Figure 4**

Delineation Sample Map  
Matador Resources Company  
Dr K South  
GPS: 32.285307, -104.14952  
Eddy County

**Legend:**

- Excavation to Approximately Six Feet bgs
- Excavation to Approximately Four and Half Feet bgs
- SP1 Delineation Sample Location
- F1 Delineation Field Sample Location - Not Laboratory Analyzed

Drafted: dd  
Checked: jh  
Date: 9/5/25



**Figure 5**

Closure Floor Sample Map  
 Matador Resources Company  
 Dr K South  
 GPS: 32.285307, -104.14952  
 Eddy County

**Legend:**

- Excavated Area
- 200 Square Foot Sample Areas
- Composite Confirmation Floor Sample Location

Drafted: dd  
 Checked: jh  
 Date: 9/25/25



**Figure 6**

Closure Sidewall Sample Map  
 Matador Resources Company  
 Dr K South  
 GPS: 32.285307, -104.14952  
 Eddy County

**Legend:**

- █ Excavated Area
- █ SW1 Composite Confirmation Sidewall Sample Location
- █ Composite Confirmation Sidewall Sample Boundary

Drafted: dd  
 Checked: jh  
 Date: 9/25/25



## Table

**TABLE 1**  
**Summary of Soil Sample Laboratory Analytical Results**  
**Matador Resources Company**  
**Dr K South**  
**NMOCD Ref. #: NAPP2126643846**

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
SP1	9/5/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP2	9/5/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SP3	9/5/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	360
SP4	9/5/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	-	-	<b>NA</b>	-	<b>100</b>	<b>600</b>
FL1	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL2	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL3	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL4	9/22/25	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL5	9/22/25	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL6	9/22/25	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL7	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL8	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL9	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL10	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL11	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL12	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL13	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL14	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL15	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL16	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL17	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
FL18	9/22/25	9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW1	9/22/25	0-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW2	9/22/25	0-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW3	9/22/25	0-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW4	9/22/25	0-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW5	9/22/25	0-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW6	9/22/25	0-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW7	9/22/25	0-4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW8	9/22/25	5-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW9	9/22/25	5-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
SW10	9/22/25	5-9	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
Backfill	9/22/25	1	In-Situ	ND	ND	ND	ND	ND	ND	ND	ND
<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	-	-	<b>NA</b>	-	<b>100</b>	<b>600</b>

**NOTES:**

- = Sample not analyzed for that constituent.

**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria

## **Attachment I**

### **Karst, Wetland, and Soil Maps**



10/1/2025, 8:38:50 AM

Karst Occurrence Potential

High

Medium

Released to Imaging: 1/13/2026 11:31:50 AM

1:9,028  
0 0.05 0.1 0.2 0.4 km  
0 0.1 0.2

BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, iPC, Maxar

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emrrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>; New Mexico Oil Conservation Division



Dr K South



October 9, 2025

**Wetlands**

- █ Estuarine and Marine Deepwater
- █ Estuarine and Marine Wetland

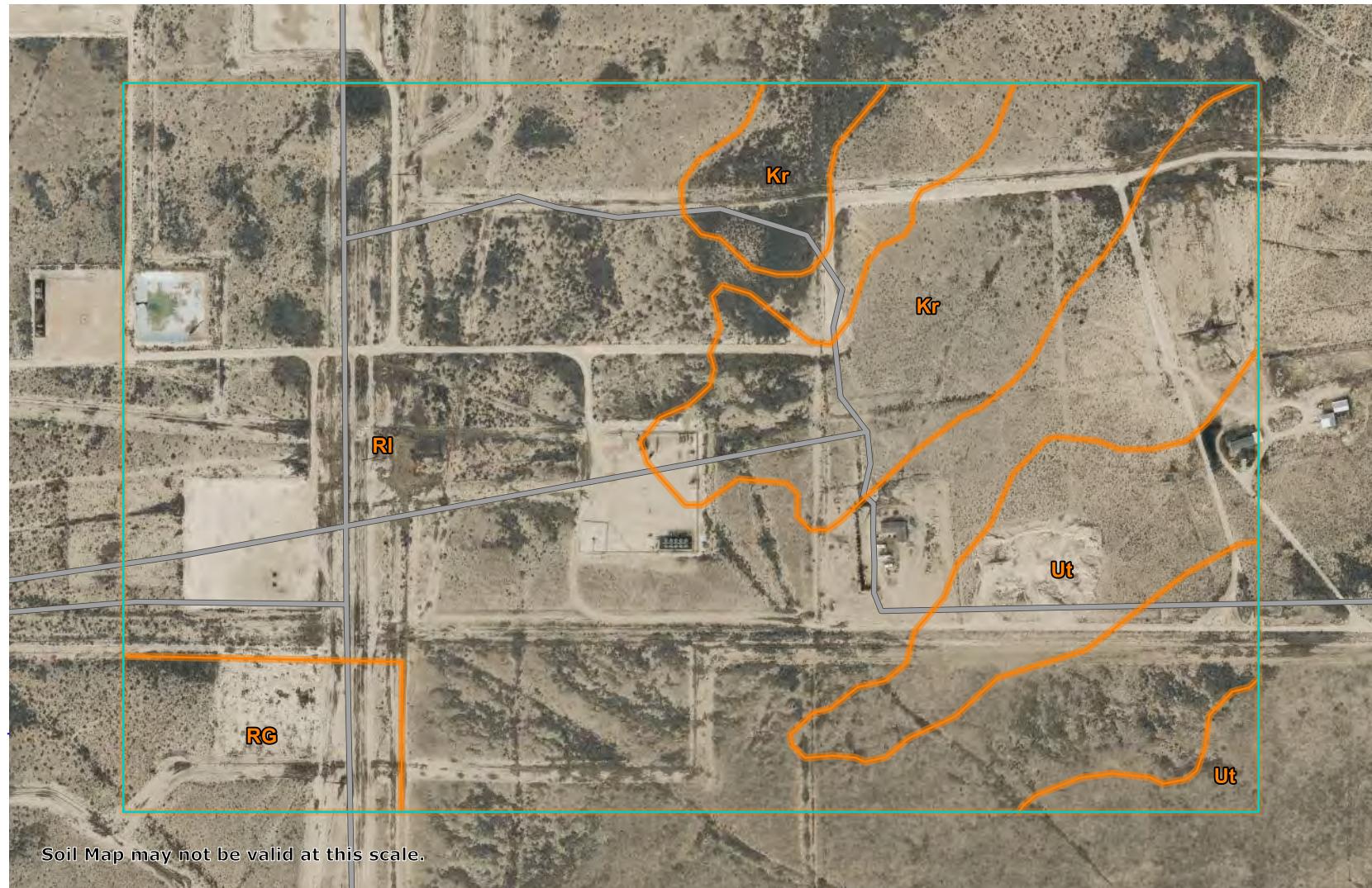
- █ Freshwater Emergent Wetland
- █ Freshwater Forested/Shrub Wetland
- █ Freshwater Pond
- █ Lake
- █ Other
- █ Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Soil Map—Eddy Area, New Mexico  
(Dr K South)

32° 17' 19"N

32° 17' 19"N



104° 9' 23"W

Map Scale: 1:5,980 if printed on A landscape (11" x 8.5") sheet.



0 50 100 150 200 250 Meters

Feet

0 250 500 750 1000 1250 1500

Map projection: Web Mercator Corner coordinates: WGS84

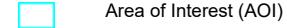
104° 8' 33"W

Natural Resources  
Conservation Service  
Released to Imaging: 1/13/2026 11:31:50 AMWeb Soil Survey  
National Cooperative Soil Survey10/9/2025  
Page 1 of 3

Soil Map—Eddy Area, New Mexico  
(Dr K South)

## MAP LEGEND

## Area of Interest (AOI)



Area of Interest (AOI)

## Soils



Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

## Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot

- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

## Water Features

- Streams and Canals

## Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

## Background

- Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 21, Sep 9, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Kr	Karro loam, 0 to 1 percent slopes	28.2	15.1%
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	9.6	5.1%
RI	Reeves loam, 0 to 1 percent slopes	132.0	70.4%
Ut	Upton soils, 1 to 3 percent slopes	17.5	9.3%
<b>Totals for Area of Interest</b>		<b>187.3</b>	<b>100.0%</b>



## **Attachment II**

### **NMOCD Correspondence**

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

## State of New Mexico

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

QUESTIONS

Action 506766

#### QUESTIONS

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 506766
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2126643846
Incident Name	NAPP2126643846 DR. K SOUTH TANK BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2203429889] Dr. K South Facility Flare Stack

#### Location of Release Source

Site Name	DR. K SOUTH TANK BATTERY
Date Release Discovered	09/22/2021
Surface Owner	Private

#### Sampling Event General Information

*Please answer all the questions in this group.*

What is the sampling surface area in square feet	3,000
What is the estimated number of samples that will be gathered	29
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/22/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Jerry Heidelberg 575-390-3639
Please provide any information necessary for navigation to sampling site	32.285307, -104.149520

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 506766

**CONDITIONS**

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 506766
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**CONDITIONS**

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/17/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/17/2025

## **Attachment III**

### **Depth to Groundwater**



# New Mexico Office of the State Engineer

## Wells With Well Log Information

(A  
CLW#####

in the

POD suffix

indicates the (R=POD has  
POD has been been replaced,  
replaced & O=orphaned,  
no longer C=the file is  
serves a water right file.)  
closed)

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

(NAD83 UTM in meters)

(meters)

(in feet)

POD Number	Code	Sub basin	County	Source	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Start Distance	Finish Date	Log File Date	Borehole Depth	Depth Water		License Number		
																	First Encountered	Driller			
<a href="#">C 04572 POD1</a>	C	ED	Shallow	SE	NE	NE	26	23S	27E	579665.4	3571950.2	●	598	2021-09-20	2021-09-21	2021-10-07	128	60	JASON ALLRED	1813	
<a href="#">C 02004</a>	C	ED	Shallow		SW	SE	24	23S	27E	580825.0	3572378.0	*	●	741	1982-05-10	1982-05-21	1982-05-24	232	190	LINTON, GARY	963

**Record Count:** 2

### UTM Filters (in meters):

**Easting:** 580083.95

**Northing:** 3572378.04

**Radius:** 805

\* UTM location was derived from PLSS - see Help

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.

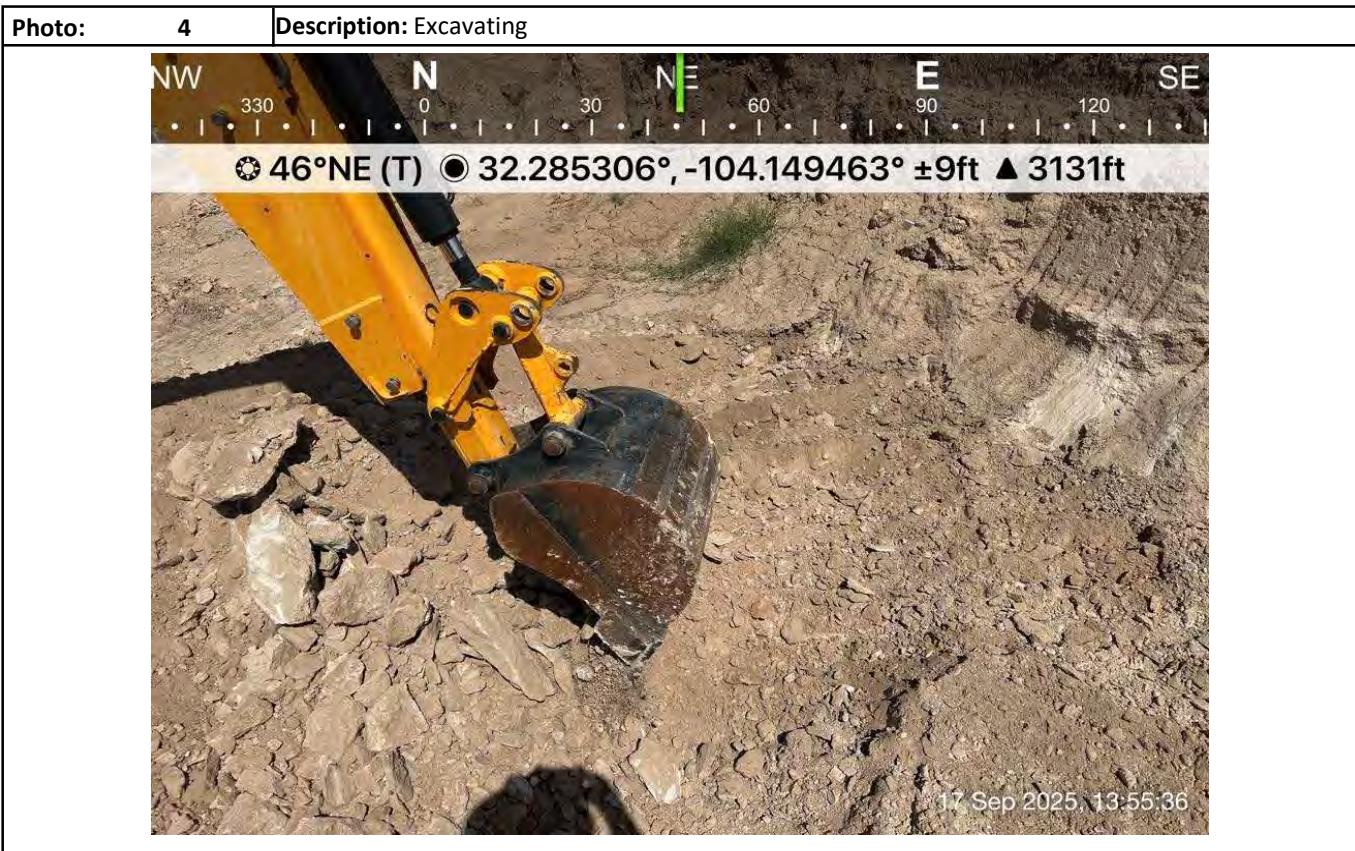
## **Attachment IV**

### **Site Photographs**

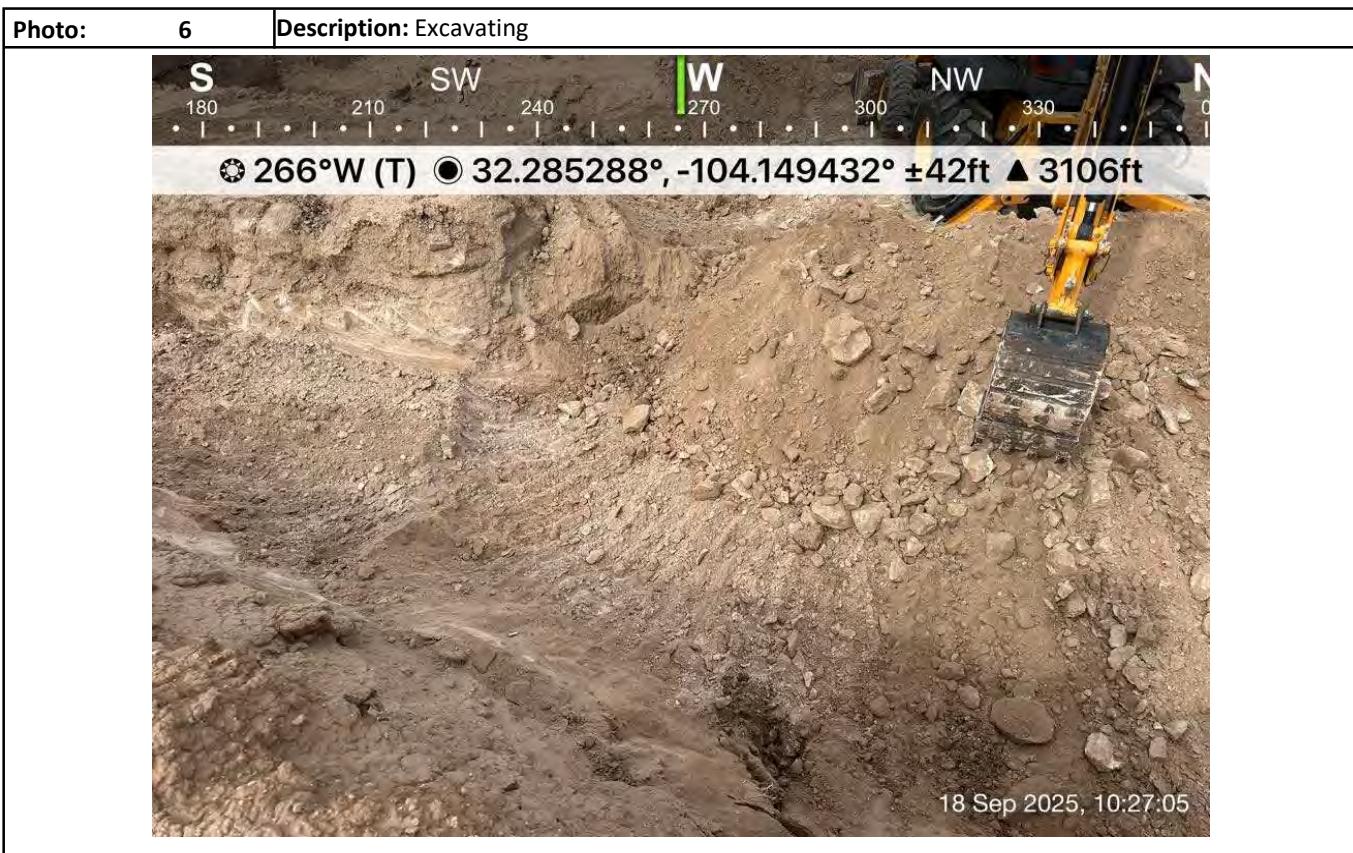
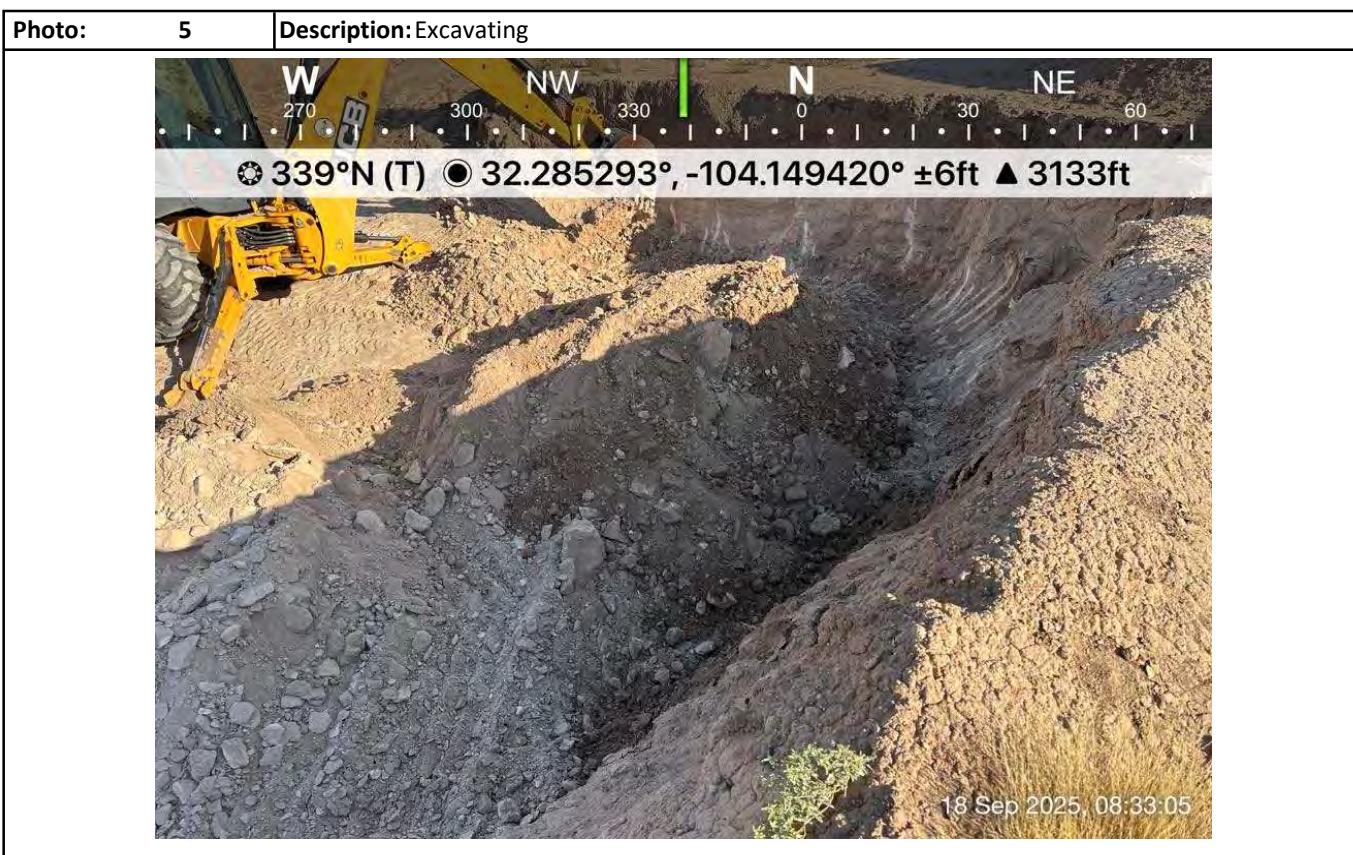
## Photographs



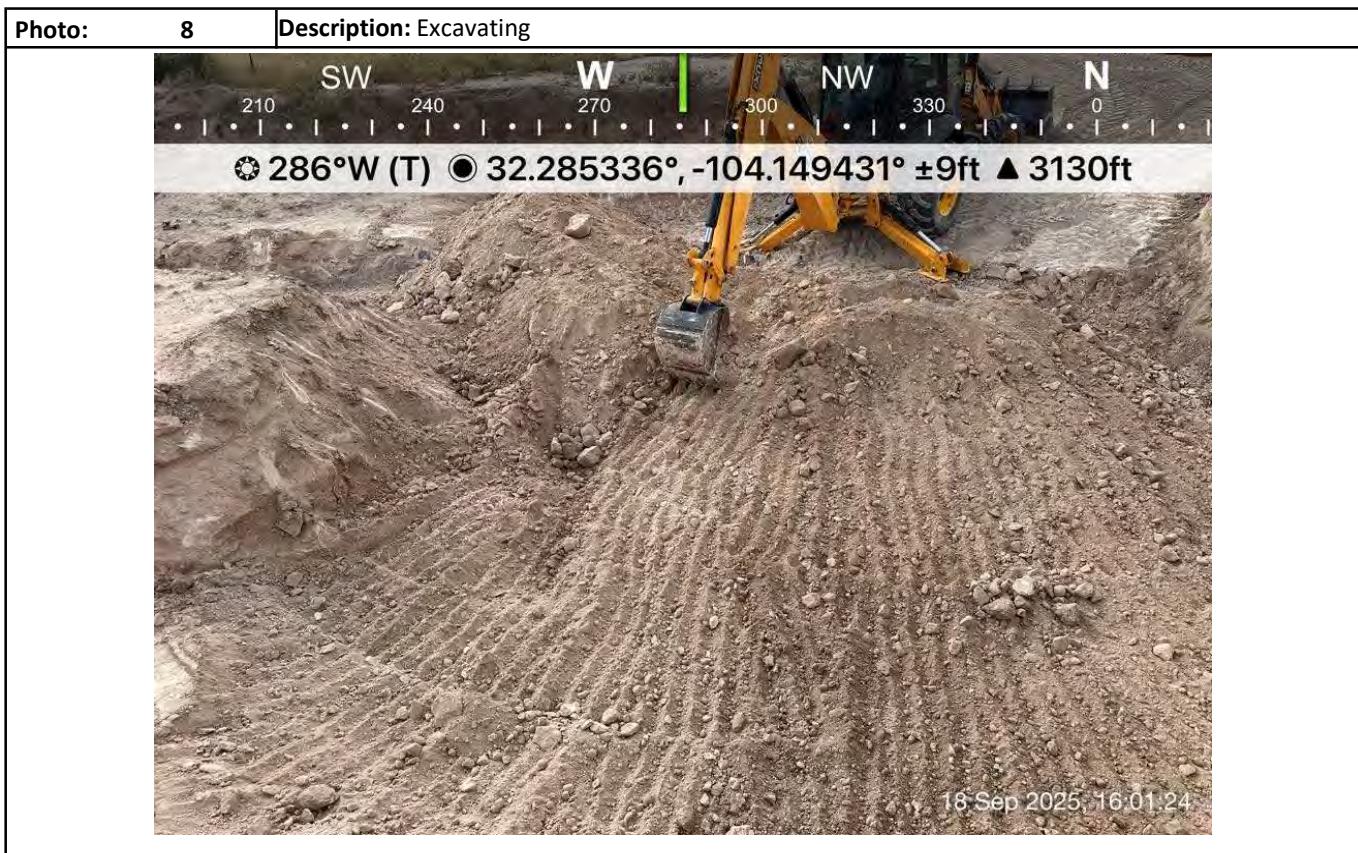
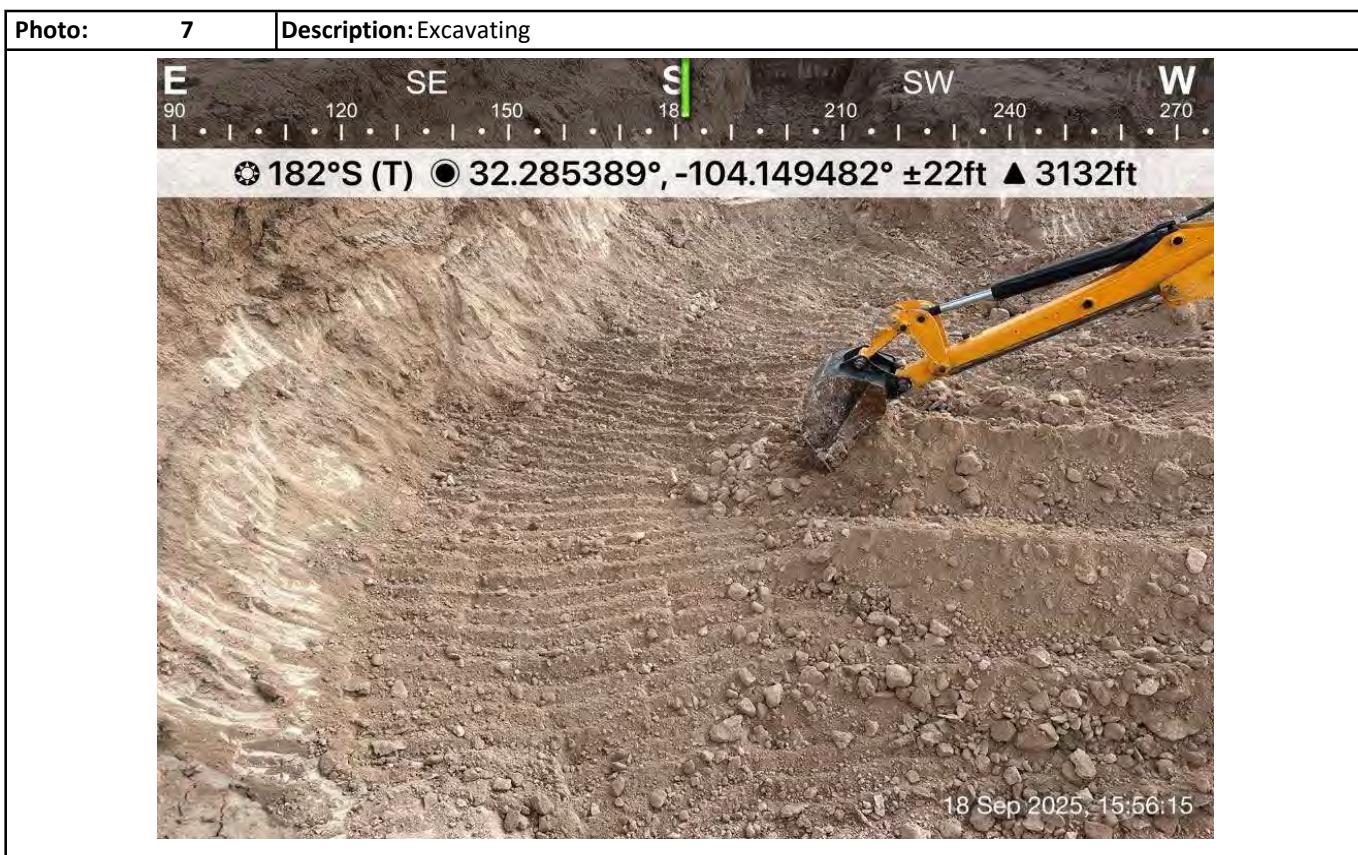
## Photographs



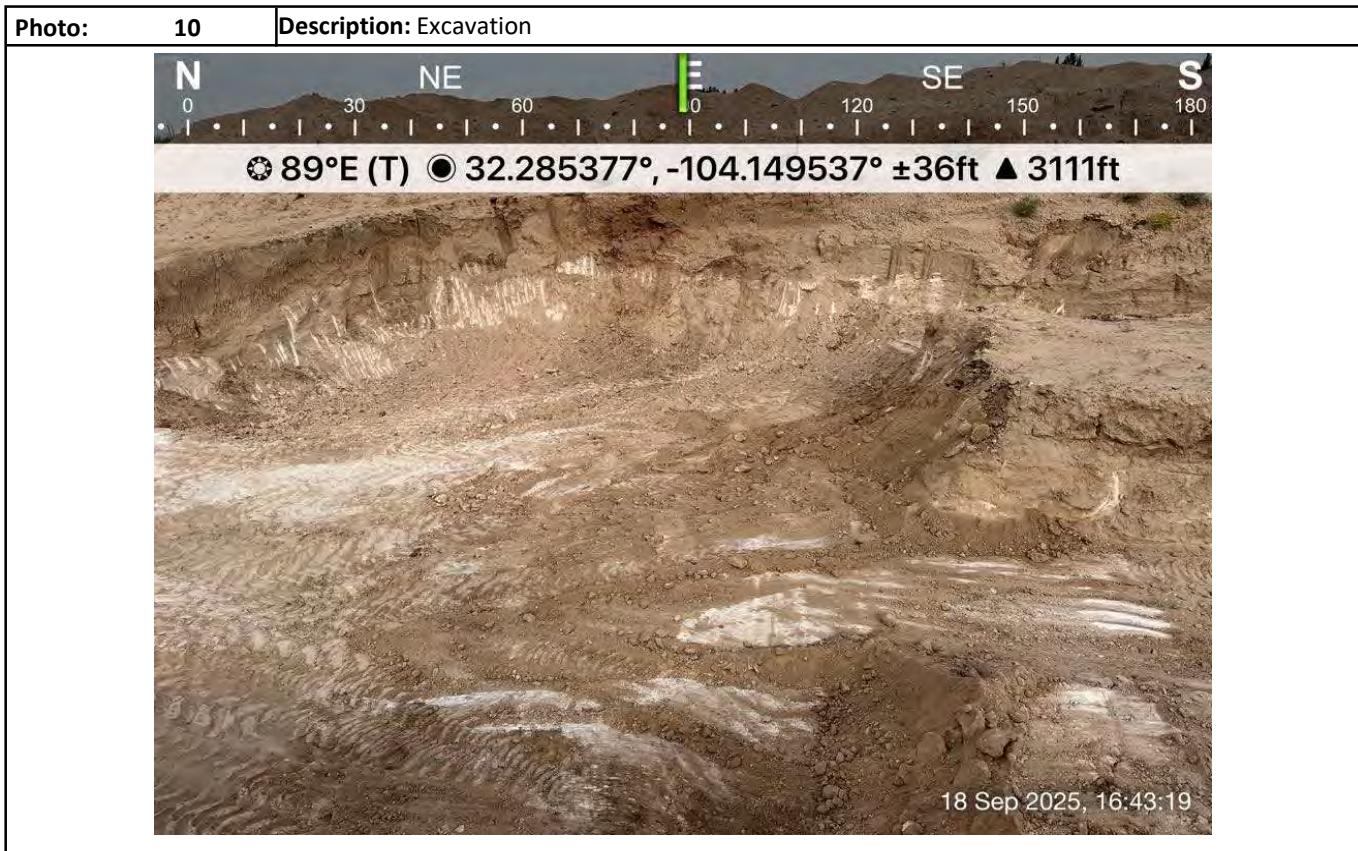
## Photographs



## Photographs



## Photographs

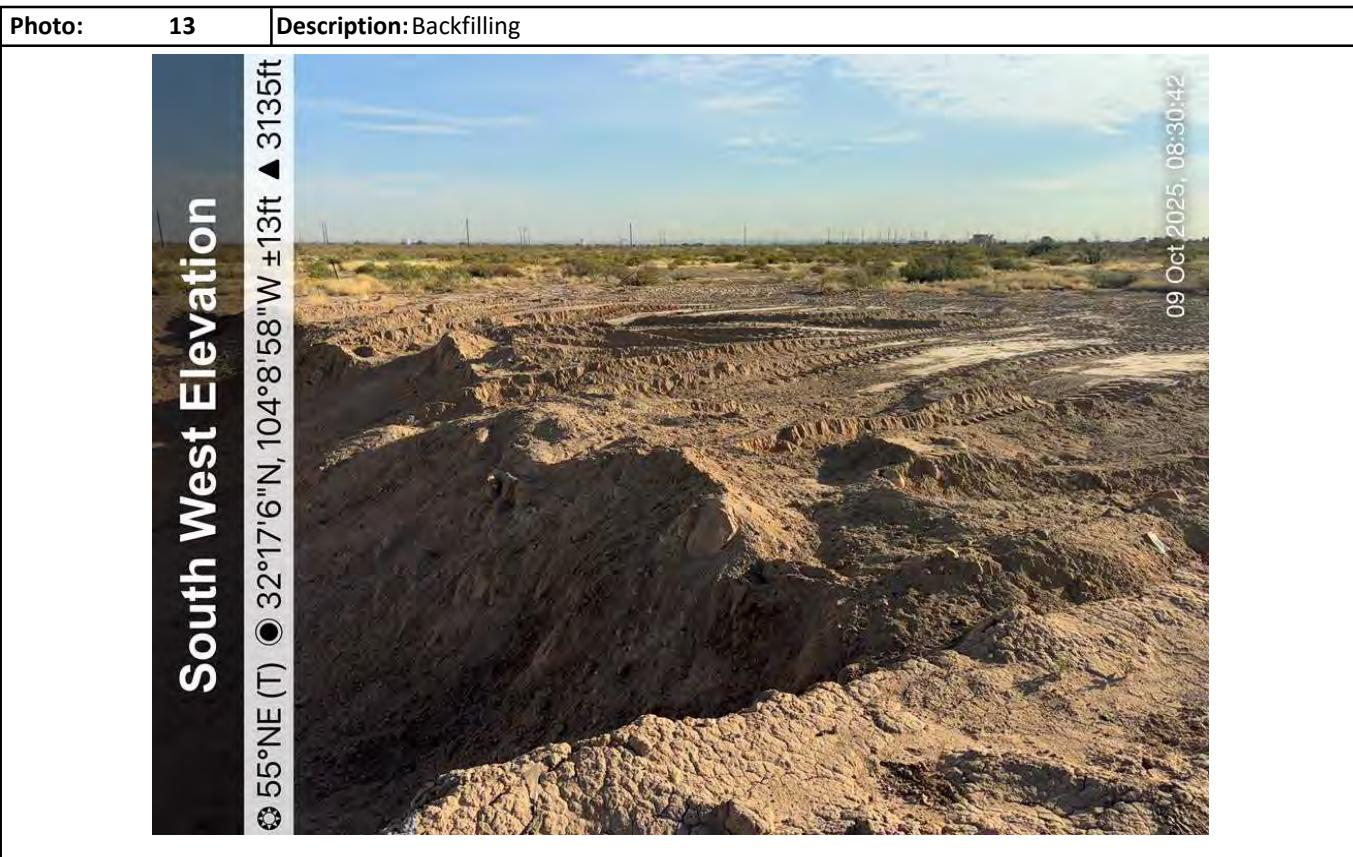


## Photographs

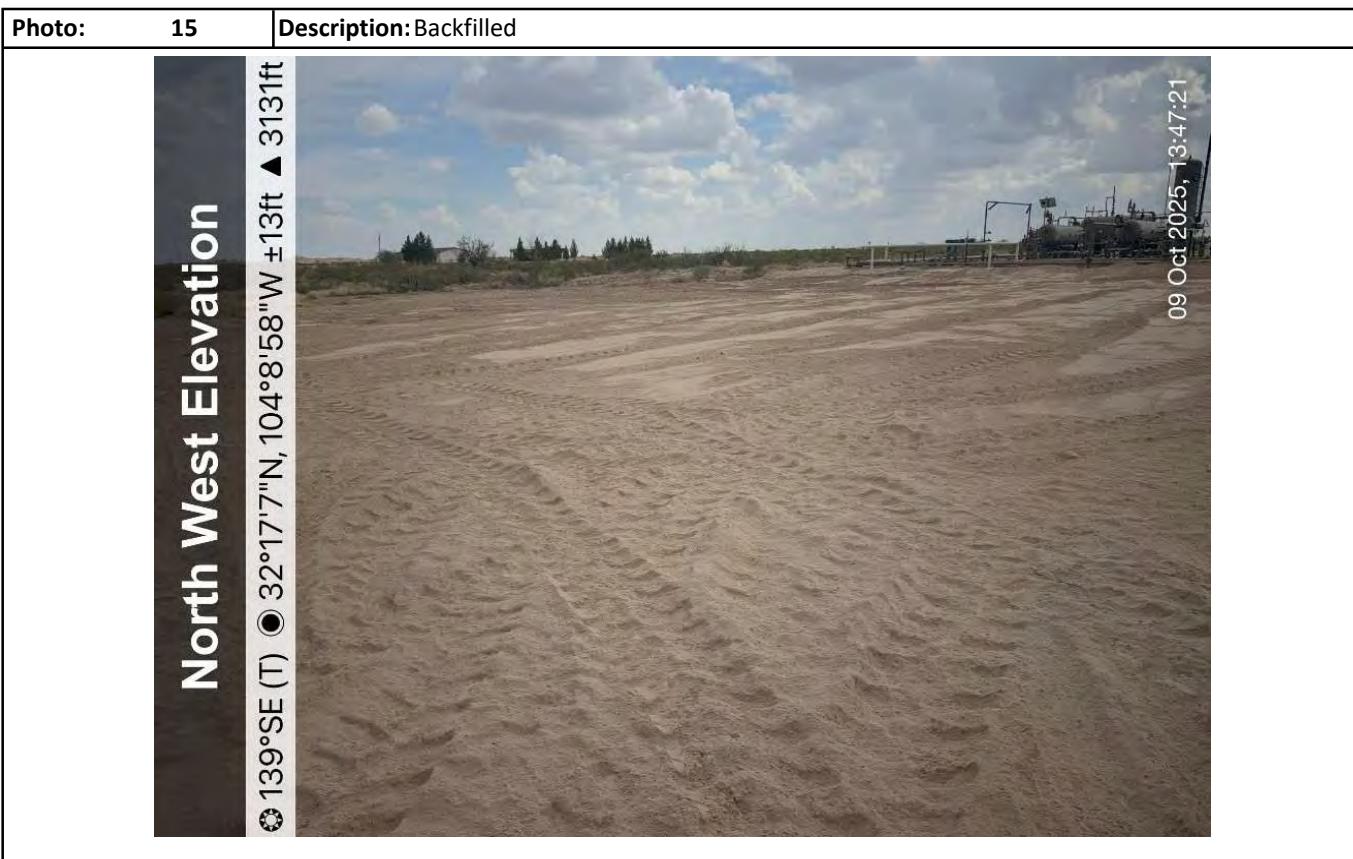
Photo:	11	Description: Backfilling
<b>North Elevation</b>		09 Oct 2025, 08:29:00 ● 195°S (T) ● 32°17'7"N, 104°8'58"W ±111ft ▲ 3141ft

Photo:	12	Description: Backfilling
<b>North West Elevation</b>		09 Oct 2025, 08:29:45 ● 135°SE (T) ● 32°17'7"N, 104°8'58"W ±13ft ▲ 3141ft

## Photographs



## Photographs



## **Attachment V**

### **Laboratory Analytical Reports**

Report to:

Daniel Dominguez



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Dr K South

Work Order: E509071

Job Number: 23052-0001

Received: 9/9/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/15/25

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: 9/15/25

Daniel Dominguez  
5400 LBJ Freeway, Suite 1500  
Dallas, TX 75240



Project Name: Dr K South  
Workorder: E509071  
Date Received: 9/9/2025 7:15:00AM

Daniel Dominguez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/9/2025 7:15:00AM, under the Project Name: Dr K South.

The analytical test results summarized in this report with the Project Name: Dr K South 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](mailto:whinchman@envirotech-inc.com)

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## Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Dr K South 23052-0001 Daniel Dominguez	Reported: 09/15/25 08:55
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 9'	E509071-01A	Soil	09/05/25	09/09/25	Glass Jar, 2 oz.
SP2 9'	E509071-02A	Soil	09/05/25	09/09/25	Glass Jar, 2 oz.
SP3 9'	E509071-03A	Soil	09/05/25	09/09/25	Glass Jar, 2 oz.
SP4 9'	E509071-04A	Soil	09/05/25	09/09/25	Glass Jar, 2 oz.

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/15/2025 8:55:57AM
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SP1 9'

E509071-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2537029
Benzene	ND	0.0250	1	09/09/25	09/09/25	
Ethylbenzene	ND	0.0250	1	09/09/25	09/09/25	
Toluene	ND	0.0250	1	09/09/25	09/09/25	
o-Xylene	ND	0.0250	1	09/09/25	09/09/25	
p,m-Xylene	ND	0.0500	1	09/09/25	09/09/25	
Total Xylenes	ND	0.0250	1	09/09/25	09/09/25	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130		09/09/25	09/09/25
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2537029
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/25	09/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130		09/09/25	09/09/25
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2537066
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/25	09/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/25	09/10/25	
Surrogate: n-Nonane		99.8 %	61-141		09/10/25	09/10/25
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2537045
Chloride	ND	200	10	09/09/25	09/09/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/15/2025 8:55:57AM
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SP2 9'

E509071-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2537029
Benzene	ND	0.0250	1	09/09/25	09/09/25	
Ethylbenzene	ND	0.0250	1	09/09/25	09/09/25	
Toluene	ND	0.0250	1	09/09/25	09/09/25	
o-Xylene	ND	0.0250	1	09/09/25	09/09/25	
p,m-Xylene	ND	0.0500	1	09/09/25	09/09/25	
Total Xylenes	ND	0.0250	1	09/09/25	09/09/25	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		09/09/25	09/09/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2537029
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/25	09/09/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.5 %	70-130		09/09/25	09/09/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2537066
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/25	09/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/25	09/10/25	
Surrogate: n-Nonane	97.9 %	61-141		09/10/25	09/10/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2537045
Chloride	ND	200	10	09/09/25	09/09/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/15/2025 8:55:57AM
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SP3 9'

E509071-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2537029
Benzene	ND	0.0250	1	09/09/25	09/09/25	
Ethylbenzene	ND	0.0250	1	09/09/25	09/09/25	
Toluene	ND	0.0250	1	09/09/25	09/09/25	
o-Xylene	ND	0.0250	1	09/09/25	09/09/25	
p,m-Xylene	ND	0.0500	1	09/09/25	09/09/25	
Total Xylenes	ND	0.0250	1	09/09/25	09/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>102 %</i>	<i>70-130</i>		<i>09/09/25</i>	<i>09/09/25</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2537029
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/25	09/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>91.0 %</i>	<i>70-130</i>		<i>09/09/25</i>	<i>09/09/25</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2537066
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/25	09/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/25	09/10/25	
<i>Surrogate: n-Nonane</i>	<i>98.6 %</i>	<i>61-141</i>		<i>09/10/25</i>	<i>09/10/25</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2537045
Chloride	<b>360</b>	200	10	09/09/25	09/09/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/15/2025 8:55:57AM
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SP4 9'

E509071-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2537029
Benzene	ND	0.0250	1	09/09/25	09/09/25	
Ethylbenzene	ND	0.0250	1	09/09/25	09/09/25	
Toluene	ND	0.0250	1	09/09/25	09/09/25	
o-Xylene	ND	0.0250	1	09/09/25	09/09/25	
p,m-Xylene	ND	0.0500	1	09/09/25	09/09/25	
Total Xylenes	ND	0.0250	1	09/09/25	09/09/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>103 %</i>	<i>70-130</i>		<i>09/09/25</i>	<i>09/09/25</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2537029
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/09/25	09/09/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>90.2 %</i>	<i>70-130</i>		<i>09/09/25</i>	<i>09/09/25</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2537066
Diesel Range Organics (C10-C28)	ND	25.0	1	09/10/25	09/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/10/25	09/10/25	
<i>Surrogate: n-Nonane</i>	<i>102 %</i>	<i>61-141</i>		<i>09/10/25</i>	<i>09/10/25</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2537045
Chloride	ND	100	5	09/09/25	09/09/25	

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K. South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/15/2025 8:55:57AM
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## Volatile Organics by EPA 8021B

Analyst: SL

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 (2537029-BLK1)

Prepared: 09/09/25 Analyzed: 09/10/25

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

8.10 8.00 101 70-130

## LCS (2537029-BS1)

Prepared: 09/09/25 Analyzed: 09/09/25

Benzene	5.38	0.0250	5.00	108	70-130				
Ethylbenzene	5.44	0.0250	5.00	109	70-130				
Toluene	5.43	0.0250	5.00	109	70-130				
o-Xylene	5.46	0.0250	5.00	109	70-130				
p,m-Xylene	11.0	0.0500	10.0	110	70-130				
Total Xylenes	16.4	0.0250	15.0	109	70-130				

Surrogate: 4-Bromochlorobenzene-PID

7.96 8.00 99.5 70-130

## Matrix Spike (2537029-MS1)

Source: E509059-20

Prepared: 09/09/25 Analyzed: 09/09/25

Benzene	5.26	0.0250	5.00	ND	105	70-130			
Ethylbenzene	5.24	0.0250	5.00	ND	105	70-130			
Toluene	5.25	0.0250	5.00	ND	105	70-130			
o-Xylene	5.22	0.0250	5.00	ND	104	70-130			
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130			
Total Xylenes	15.8	0.0250	15.0	ND	105	70-130			

Surrogate: 4-Bromochlorobenzene-PID

7.90 8.00 98.8 70-130

## Matrix Spike Dup (2537029-MSD1)

Source: E509059-20

Prepared: 09/09/25 Analyzed: 09/09/25

Benzene	5.32	0.0250	5.00	ND	106	70-130	1.13	27	
Ethylbenzene	5.32	0.0250	5.00	ND	106	70-130	1.38	26	
Toluene	5.32	0.0250	5.00	ND	106	70-130	1.16	20	
o-Xylene	5.30	0.0250	5.00	ND	106	70-130	1.58	25	
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130	1.51	23	
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130	1.53	26	

Surrogate: 4-Bromochlorobenzene-PID

7.92 8.00 99.1 70-130

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/15/2025 8:55:57AM
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## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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

## Blank (2537029-BLK1)

Prepared: 09/09/25 Analyzed: 09/10/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.7	70-130		

## LCS (2537029-BS2)

Prepared: 09/09/25 Analyzed: 09/09/25

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130		

## Matrix Spike (2537029-MS2)

Source: E509059-20

Prepared: 09/09/25 Analyzed: 09/09/25

Gasoline Range Organics (C6-C10)	58.9	20.0	50.0	ND	118	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130		

## Matrix Spike Dup (2537029-MSD2)

Source: E509059-20

Prepared: 09/09/25 Analyzed: 09/09/25

Gasoline Range Organics (C6-C10)	58.0	20.0	50.0	ND	116	70-130	1.55	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.28		8.00		91.0	70-130		

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K. South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/15/2025 8:55:57AM
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## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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## Blank (2537066-BLK1)

Prepared: 09/10/25 Analyzed: 09/10/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	46.3		50.0		92.5	61-141		

## LCS (2537066-BS1)

Prepared: 09/10/25 Analyzed: 09/10/25

Diesel Range Organics (C10-C28)	251	25.0	250		100	66-144		
Surrogate: n-Nonane	46.6		50.0		93.2	61-141		

## Matrix Spike (2537066-MS1)

Source: E509069-03 Prepared: 09/10/25 Analyzed: 09/10/25

Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	56-156		
Surrogate: n-Nonane	47.9		50.0		95.9	61-141		

## Matrix Spike Dup (2537066-MSD1)

Source: E509069-03 Prepared: 09/10/25 Analyzed: 09/10/25

Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	56-156	0.204	20
Surrogate: n-Nonane	48.4		50.0		96.8	61-141		

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/15/2025 8:55:57AM
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## Anions by EPA 300.0/9056A

Analyst: TP

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 (2537045-BLK1)

Prepared: 09/09/25 Analyzed: 09/09/25

Chloride	ND	20.0
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## LCS (2537045-BS1)

Prepared: 09/09/25 Analyzed: 09/09/25

Chloride	253	20.0	250	101	90-110
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## Matrix Spike (2537045-MS1)

Source: E509067-07 Prepared: 09/09/25 Analyzed: 09/09/25

Chloride	1310	20.0	250	1070	94.7	80-120
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## Matrix Spike Dup (2537045-MSD1)

Source: E509067-07 Prepared: 09/09/25 Analyzed: 09/09/25

Chloride	1360	20.0	250	1070	114	80-120	3.70	20
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## 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 09/15/25 08:55
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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.

Released to Imaging: 11/20/2025 11:31:50 AM  
 Client: Matador Resources Company  
 Project: Dr K South  
 Project Manager: Daniel Dominguez  
 Address: 4024 Plains Hwy  
 City, State, Zip: Lovington, NM 88260, NM, 8826  
 Phone: 575 393-3386  
 Email: pm@hungry-horse.com  
 Report due by:

				Bill To		Lab Use Only			TAT				EPA Program		
						Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA		
				Attention: Jason Touchet		ES09071	R30S2-0001				X				
				Address: 5400 LBJ Freeway Ste 1500											
				City, State, Zip: Dallas											RCRA
				Phone: 3376523463											
				Email: jason.touchet@matadorresources.com											
								Analysis and Method							
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Depth	Lab Number	GR/DR/DO by 8015	BTEX by 8021	VOC by 8260	Methyls 6010	BRDCC NM	SDCC TX		
5-Sep	Soil	1		SP1		9'	1					X			3.7°
5-Sep	Soil	1		SP2		9'	2					X			3.6°
5-Sep	Soil	1		SP3		9'	3					X			3.8°
5-Sep	Soil	1		SP4		9'	4					X			3.5°
															Remarks

Page 14 of 15

## 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:

Relinquished by: (Signature)	Date 9/8/25	Time 1430	Received by: (Signature)	Michelle Gonzales	Date 9-8-25	Time 1430	Lab Use Only
Relinquished by: (Signature)	Date 9-8-25	Time 1500	Received by: (Signature)	Marissa Gonzales	Date 9-8-25	Time 1500	Received on ice: <input checked="" type="radio"/> Y / N
Relinquished by: (Signature)	Date 9-8-25	Time 1945	Received by: (Signature)	Andrew Musso	Date 9-8-25	Time 1945	T1 T2 T3

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.

Andrew Musso 9-8-25 2400

9-8-25 0715



envirotech

## Envirotech Analytical Laboratory

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: 09/09/25 07:15	Work Order ID: E509071
Phone: (972) 371-5200	Date Logged In: 09/08/25 15:57	Logged In By: Caitlin Mars
Email: pm@hungry-horse.com	Due Date: 09/15/25 07:00 (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 Carrier: Courier  
 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No  
 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.

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes  
 8. If yes, was cooler received in good condition? Yes  
 9. Was the sample(s) received intact, i.e., not broken? Yes  
 10. Were custody/security seals present? No  
 11. If yes, were custody/security seals intact? NA  
 12. Was the sample received on ice? Yes  
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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
---	------

Report to:

Daniel Dominguez



5796 U.S. Hwy 64  
Farmington, NM 87401

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Dr K South

Work Order: E509244

Job Number: 23052-0001

Received: 9/23/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/30/25

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: 9/30/25

Daniel Dominguez  
5400 LBJ Freeway, Suite 1500  
Dallas, TX 75240



Project Name: Dr K South  
Workorder: E509244  
Date Received: 9/23/2025 5:30:10AM

Daniel Dominguez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/23/2025 5:30:10AM, under the Project Name: Dr K South.

The analytical test results summarized in this report with the Project Name: Dr K South 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**  
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Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Dr K South 23052-0001 Daniel Dominguez	Reported: 09/30/25 13:45
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FL1 9'	E509244-01A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL2 9'	E509244-02A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL3 9'	E509244-03A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL4 4.5	E509244-04A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL5 4.5	E509244-05A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL6 4.5	E509244-06A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL7 9'	E509244-07A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL8 9'	E509244-08A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL9 9'	E509244-09A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL10 9'	E509244-10A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL11 9'	E509244-11A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL12 9'	E509244-12A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL13 9'	E509244-13A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL14 9'	E509244-14A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL15 9'	E509244-15A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL16 9'	E509244-16A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL17 9'	E509244-17A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
FL18 9'	E509244-18A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW1 0-9'	E509244-19A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW2 0-9'	E509244-20A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW3 0-9	E509244-21A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW4 0-9	E509244-22A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW5 0-9	E509244-23A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW6 0-9	E509244-24A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW7 0-4.5	E509244-25A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW8 4.5-9	E509244-26A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW9 4.5-9	E509244-27A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
SW10 4.5-9	E509244-28A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.
Backfill 1'	E509244-29A	Soil	09/22/25	09/23/25	Glass Jar, 2 oz.

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL1 9'

E509244-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130		09/23/25	09/26/25
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.9 %	70-130		09/23/25	09/26/25
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane		87.6 %	61-141		09/25/25	09/26/25
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL2 9'

E509244-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID	95.9 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.3 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	88.4 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL3 9'

E509244-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID	97.7 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.3 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	88.7 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL4 4.5

E509244-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.6 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.1 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>	91.4 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL5 4.5

E509244-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130		09/23/25	09/26/25
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130		09/23/25	09/26/25
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane		91.3 %	61-141		09/25/25	09/26/25
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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### FL6 4.5

**E509244-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.1 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.4 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>	89.8 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL7 9'

E509244-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID	99.0 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.9 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	90.8 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL8 9'

E509244-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.4 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.4 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>	89.6 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL9 9'

E509244-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID	99.3 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.3 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	91.1 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL10 9'

E509244-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID	98.6 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.4 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	92.1 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL11 9'

E509244-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane		91.9 %	61-141	09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL12 9'

E509244-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID	97.3 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.6 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	91.2 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL13 9'

E509244-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID		98.2 %	70-130	09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.1 %	70-130	09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane		93.6 %	61-141	09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL14 9'

E509244-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID		98.2 %	70-130		09/23/25	09/26/25
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.7 %	70-130		09/23/25	09/26/25
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane		91.6 %	61-141		09/25/25	09/26/25
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL15 9'

E509244-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.3 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	88.9 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL16 9'

E509244-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID	97.9 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.1 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	92.9 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL17 9'

E509244-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.5 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	91.4 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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FL18 9'

E509244-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID		97.6 %	70-130		09/23/25	09/26/25
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.4 %	70-130		09/23/25	09/26/25
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane		90.4 %	61-141		09/25/25	09/26/25
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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SW1 0-9'

E509244-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.1 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	88.8 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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SW2 0-9'

E509244-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Benzene	ND	0.0250	1	09/23/25	09/26/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/26/25	
Toluene	ND	0.0250	1	09/23/25	09/26/25	
o-Xylene	ND	0.0250	1	09/23/25	09/26/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/26/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/26/25	
Surrogate: 4-Bromochlorobenzene-PID	96.5 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: SL		Batch: 2539070
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.2 %	70-130		09/23/25	09/26/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: HM		Batch: 2539131
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	91.5 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: TP		Batch: 2539145
Chloride	ND	20.0	1	09/25/25	09/26/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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SW3 0-9

E509244-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	70-130		09/23/25	09/29/25
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.4 %	70-130		09/23/25	09/29/25
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2539132
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane		92.5 %	61-141		09/25/25	09/26/25
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2539143
Chloride	ND	20.0	1	09/25/25	09/25/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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SW4 0-9

E509244-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
Surrogate: 4-Bromochlorobenzene-PID		93.6 %	70-130		09/23/25	09/29/25
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.3 %	70-130		09/23/25	09/29/25
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2539132
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane		93.4 %	61-141		09/25/25	09/26/25
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2539143
Chloride	ND	20.0	1	09/25/25	09/25/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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SW5 0-9

E509244-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>94.0 %</i>	<i>70-130</i>		<i>09/23/25</i>	<i>09/29/25</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>86.1 %</i>	<i>70-130</i>		<i>09/23/25</i>	<i>09/29/25</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2539132
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>	<i>94.4 %</i>	<i>61-141</i>		<i>09/25/25</i>	<i>09/26/25</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2539143
Chloride	ND	20.0	1	09/25/25	09/25/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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SW6 0-9

E509244-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
Surrogate: 4-Bromochlorobenzene-PID	91.9 %	70-130		09/23/25	09/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.1 %	70-130		09/23/25	09/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2539132
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	94.0 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2539143
Chloride	ND	20.0	1	09/25/25	09/25/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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SW7 0-4.5

E509244-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	09/23/25	09/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.5 %	70-130	09/23/25	09/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2539132
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane		91.6 %	61-141	09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2539143
Chloride	ND	20.0	1	09/25/25	09/25/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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SW8 4.5-9

E509244-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
Surrogate: 4-Bromochlorobenzene-PID	92.8 %	70-130		09/23/25	09/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.7 %	70-130		09/23/25	09/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2539132
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	92.9 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2539143
Chloride	ND	20.0	1	09/25/25	09/25/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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SW9 4.5-9

E509244-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
Surrogate: 4-Bromochlorobenzene-PID	92.6 %	70-130		09/23/25	09/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.4 %	70-130		09/23/25	09/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2539132
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane	95.3 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2539143
Chloride	ND	20.0	1	09/25/25	09/25/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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SW10 4.5-9

E509244-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Benzene	ND	0.0250	1	09/23/25	09/29/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/29/25	
Toluene	ND	0.0250	1	09/23/25	09/29/25	
o-Xylene	ND	0.0250	1	09/23/25	09/29/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/29/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/29/25	
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	70-130		09/23/25	09/29/25
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130		09/23/25	09/29/25
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2539132
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
Surrogate: n-Nonane		93.1 %	61-141		09/25/25	09/26/25
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2539143
Chloride	ND	20.0	1	09/25/25	09/25/25	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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### Backfill 1'

**E509244-29**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Benzene	ND	0.0250	1	09/23/25	09/30/25	
Ethylbenzene	ND	0.0250	1	09/23/25	09/30/25	
Toluene	ND	0.0250	1	09/23/25	09/30/25	
o-Xylene	ND	0.0250	1	09/23/25	09/30/25	
p,m-Xylene	ND	0.0500	1	09/23/25	09/30/25	
Total Xylenes	ND	0.0250	1	09/23/25	09/30/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.8 %	70-130		09/23/25	09/30/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2539072
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/23/25	09/30/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.3 %	70-130		09/23/25	09/30/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: NV		Batch: 2539132
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/25	09/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/25	09/26/25	
<i>Surrogate: n-Nonane</i>	90.5 %	61-141		09/25/25	09/26/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: DT		Batch: 2539143
Chloride	ND	200	10	09/25/25	09/26/25	

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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## Volatile Organics by EPA 8021B

Analyst: SL

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 (2539070-BLK1)

Prepared: 09/23/25 Analyzed: 09/26/25

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

7.87 8.00 98.4 70-130

## LCS (2539070-BS1)

Prepared: 09/23/25 Analyzed: 09/26/25

Benzene	5.32	0.0250	5.00	106	70-130				
Ethylbenzene	5.29	0.0250	5.00	106	70-130				
Toluene	5.31	0.0250	5.00	106	70-130				
o-Xylene	5.27	0.0250	5.00	105	70-130				
p,m-Xylene	10.7	0.0500	10.0	107	70-130				
Total Xylenes	15.9	0.0250	15.0	106	70-130				

Surrogate: 4-Bromochlorobenzene-PID

8.16 8.00 102 70-130

## Matrix Spike (2539070-MS1)

Source: E509244-04

Prepared: 09/23/25 Analyzed: 09/26/25

Benzene	5.49	0.0250	5.00	ND	110	70-130			
Ethylbenzene	5.43	0.0250	5.00	ND	109	70-130			
Toluene	5.46	0.0250	5.00	ND	109	70-130			
o-Xylene	5.42	0.0250	5.00	ND	108	70-130			
p,m-Xylene	10.9	0.0500	10.0	ND	109	70-130			
Total Xylenes	16.4	0.0250	15.0	ND	109	70-130			

Surrogate: 4-Bromochlorobenzene-PID

8.17 8.00 102 70-130

## Matrix Spike Dup (2539070-MSD1)

Source: E509244-04

Prepared: 09/23/25 Analyzed: 09/26/25

Benzene	5.79	0.0250	5.00	ND	116	70-130	5.19	27	
Ethylbenzene	5.73	0.0250	5.00	ND	115	70-130	5.33	26	
Toluene	5.74	0.0250	5.00	ND	115	70-130	5.01	20	
o-Xylene	5.70	0.0250	5.00	ND	114	70-130	4.94	25	
p,m-Xylene	11.5	0.0500	10.0	ND	115	70-130	5.23	23	
Total Xylenes	17.2	0.0250	15.0	ND	115	70-130	5.14	26	

Surrogate: 4-Bromochlorobenzene-PID

8.03 8.00 100 70-130

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K. South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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## Volatile Organics by EPA 8021B

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 (2539072-BLK1)

Prepared: 09/23/25 Analyzed: 09/29/25

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

7.56 8.00 94.6 70-130

## LCS (2539072-BS1)

Prepared: 09/23/25 Analyzed: 09/29/25

Benzene	4.90	0.0250	5.00	98.1	70-130				
Ethylbenzene	4.87	0.0250	5.00	97.4	70-130				
Toluene	4.91	0.0250	5.00	98.3	70-130				
o-Xylene	4.92	0.0250	5.00	98.5	70-130				
p,m-Xylene	9.85	0.0500	10.0	98.5	70-130				
Total Xylenes	14.8	0.0250	15.0	98.5	70-130				

Surrogate: 4-Bromochlorobenzene-PID

7.62 8.00 95.3 70-130

## Matrix Spike (2539072-MS1)

Source: E509244-22

Prepared: 09/23/25 Analyzed: 09/29/25

Benzene	5.01	0.0250	5.00	ND	100	70-130			
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	70-130			
Toluene	5.01	0.0250	5.00	ND	100	70-130			
o-Xylene	5.03	0.0250	5.00	ND	101	70-130			
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130			
Total Xylenes	15.1	0.0250	15.0	ND	101	70-130			

Surrogate: 4-Bromochlorobenzene-PID

7.56 8.00 94.5 70-130

## Matrix Spike Dup (2539072-MSD1)

Source: E509244-22

Prepared: 09/23/25 Analyzed: 09/30/25

Benzene	4.57	0.0250	5.00	ND	91.5	70-130	9.01	27	
Ethylbenzene	4.56	0.0250	5.00	ND	91.3	70-130	8.61	26	
Toluene	4.60	0.0250	5.00	ND	92.1	70-130	8.53	20	
o-Xylene	4.61	0.0250	5.00	ND	92.2	70-130	8.69	25	
p,m-Xylene	9.22	0.0500	10.0	ND	92.2	70-130	8.60	23	
Total Xylenes	13.8	0.0250	15.0	ND	92.2	70-130	8.63	26	

Surrogate: 4-Bromochlorobenzene-PID

7.68 8.00 96.0 70-130

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K. South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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## Blank (2539070-BLK1)

Prepared: 09/23/25 Analyzed: 09/26/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.3	70-130		

## LCS (2539070-BS2)

Prepared: 09/23/25 Analyzed: 09/26/25

Gasoline Range Organics (C6-C10)	55.8	20.0	50.0		112	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	70-130		

## Matrix Spike (2539070-MS2)

Source: E509244-04

Prepared: 09/23/25 Analyzed: 09/26/25

Gasoline Range Organics (C6-C10)	56.3	20.0	50.0	ND	113	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.11		8.00		88.9	70-130		

## Matrix Spike Dup (2539070-MSD2)

Source: E509244-04

Prepared: 09/23/25 Analyzed: 09/26/25

Gasoline Range Organics (C6-C10)	54.3	20.0	50.0	ND	109	70-130	3.64	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130		

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K. South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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## Blank (2539072-BLK1)

Prepared: 09/23/25 Analyzed: 09/29/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		8.00		87.4	70-130		

## LCS (2539072-BS2)

Prepared: 09/23/25 Analyzed: 09/29/25

Gasoline Range Organics (C6-C10)	58.7	20.0	50.0		117	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130		

## Matrix Spike (2539072-MS2)

Source: E509244-22

Prepared: 09/23/25 Analyzed: 09/29/25

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.7	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130		

## Matrix Spike Dup (2539072-MSD2)

Source: E509244-22

Prepared: 09/23/25 Analyzed: 09/29/25

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0	ND	102	70-130	2.09	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.8	70-130		

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K. South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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

## Blank (2539131-BLK1)

Prepared: 09/25/25 Analyzed: 09/26/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	45.7		50.0		91.5	61-141		

## LCS (2539131-BS1)

Prepared: 09/25/25 Analyzed: 09/26/25

Diesel Range Organics (C10-C28)	231	25.0	250	92.5	66-144			
Surrogate: n-Nonane	43.6		50.0	87.2	61-141			

## Matrix Spike (2539131-MS1)

Source: E509244-10 Prepared: 09/25/25 Analyzed: 09/26/25

Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.0	56-156		
Surrogate: n-Nonane	45.3		50.0		90.5	61-141		

## Matrix Spike Dup (2539131-MSD1)

Source: E509244-10 Prepared: 09/25/25 Analyzed: 09/26/25

Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.4	56-156	0.645	20
Surrogate: n-Nonane	44.8		50.0		89.5	61-141		

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K. South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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## Blank (2539132-BLK1)

Prepared: 09/25/25 Analyzed: 09/26/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	44.5		50.0		89.1	61-141		

## LCS (2539132-BS1)

Prepared: 09/25/25 Analyzed: 09/26/25

Diesel Range Organics (C10-C28)	246	25.0	250		98.5	66-144		
Surrogate: n-Nonane	45.2		50.0		90.4	61-141		

## Matrix Spike (2539132-MS1)

Source: E509244-21 Prepared: 09/25/25 Analyzed: 09/26/25

Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	56-156		
Surrogate: n-Nonane	45.9		50.0		91.9	61-141		

## Matrix Spike Dup (2539132-MSD1)

Source: E509244-21 Prepared: 09/25/25 Analyzed: 09/26/25

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	56-156	2.35	20
Surrogate: n-Nonane	46.9		50.0		93.9	61-141		

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K. South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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## Anions by EPA 300.0/9056A

Analyst: DT

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 (2539143-BLK1)

Prepared: 09/25/25 Analyzed: 09/25/25

Chloride ND 20.0

## LCS (2539143-BS1)

Prepared: 09/25/25 Analyzed: 09/25/25

Chloride 254 20.0 250 102 90-110

## Matrix Spike (2539143-MS1)

Source: E509244-24 Prepared: 09/25/25 Analyzed: 09/25/25

Chloride 266 20.0 250 ND 106 80-120

## Matrix Spike Dup (2539143-MSD1)

Source: E509244-24 Prepared: 09/25/25 Analyzed: 09/25/25

Chloride 269 20.0 250 ND 107 80-120 1.13 20

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 9/30/2025 1:45:55PM
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## Anions by EPA 300.0/9056A

Analyst: TP

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 (2539145-BLK1)

Prepared: 09/25/25 Analyzed: 09/26/25

Chloride	ND	20.0
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## LCS (2539145-BS1)

Prepared: 09/25/25 Analyzed: 09/26/25

Chloride	253	20.0	250	101	90-110
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## Matrix Spike (2539145-MS1)

Source: E509244-05 Prepared: 09/25/25 Analyzed: 09/26/25

Chloride	260	20.0	250	ND	104	80-120
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## Matrix Spike Dup (2539145-MSD1)

Source: E509244-05 Prepared: 09/25/25 Analyzed: 09/26/25

Chloride	261	20.0	250	ND	105	80-120	0.546	20
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## 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr K South Project Number: 23052-0001 Project Manager: Daniel Dominguez	Reported: 09/30/25 13:45
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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

Client: Matador Resources Company				Bill To			Lab Use Only			TAT				EPA Program				
Project: Dr K South				Attention: Jason Touchet			Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Daniel Dominguez				Address: 5400 LBJ Freeway Ste 1500			ES09244		23052-001		X							
Address: 4024 Plains Hwy				City, State, Zip: Dallas											RCRA			
City, State, Zip: Lovington, NM 88260, NM, 8826				Phone: 3376523463														
Phone: 575 393-3386				Email: jason.touchet@matadorresources.com											State			
Email: pm@hungry-horse.com											NM		CO		UT			
Report due by:											AZ		TX					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Depth	Lab Number										
810	9/22/25	Soil	1	FL1			9'	1					X		1.5°			
812	9/22/25	Soil	1	FL2			9'	2					X		1.9°			
814	9/22/25	Soil	1	FL3			9'	3					X		1.8°			
816	9/22/25	Soil	1	FL4			4.5	4					X		1.9°			
818	9/22/25	Soil	1	FL5			4.5	5					X		2.3°			
820	9/22/25	Soil	1	FL6			4.5	6					X		2.5°			
822	9/22/25	Soil	1	FL7			9'	7					X		2.7°			
824	9/22/25	Soil	1	FL8			9'	8					X		2.8°			
826	9/22/25	Soil	1	FL9			9'	9					X		2.5°			
828	9/22/25	Soil	1	FL10			9'	10					X		2.3°			

## Additional Instructions:

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

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 9-22-25

Time 1330

Received by: (Signature)

Michelle Gonzales

Date 9-22-25

Time 1330

Lab Use Only

Received on ice:  Y /  N

Relinquished by: (Signature)

Date 9-22-25

Time 1430

Received by: (Signature)

Marissa Gonzales

Date 9-22-25

Time 1430

T1  T2  T3 

Relinquished by: (Signature)

Date 9-22-25

Time 1900

Received by: (Signature)

Andrew Musso

Date 9-22-25

Time 1900

AVG Temp °C

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.

Andrew Musso 9-22-25 2400 Noe Soto

9-23-25 0530



envirotech

Released to Imaging: 11/3/2025 11:31:50 AM

Client: Matador Resources Company  
 Project: Dr K South  
 Project Manager: Daniel Dominguez  
 Address: 4024 Plains Hwy  
 City, State, Zip: Lovington, NM 88260, NM, 8826  
 Phone: 575 393-3386  
 Email: pm@hungry-horse.com  
 Report due by:

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	Bill To		Lab Use Only		TAT				EPA Program						
							Attention: Jason Touchet	Address: 5400 LBJ Freeway Ste 1500	Lab WO# <u>E509244</u>	Job Number <u>23052-0001</u>	1D	2D	3D	Standard	CWA	SDWA					
Analysis and Method																					
DDEO/ORO by 0815																					
GRD/DRD by 0815																					
BTEX by 0821																					
VOC by 0820																					
Metals 610																					
Chloride 3000																					
BSOC NM																					
BSOC TX																					
State																					
NM		CO		UT		AZ		TX													
<input checked="" type="checkbox"/>																					
Remarks																					
830	9/22/25	Soil	1	FL11	9'	11								X		3.5°					
832	9/22/25	Soil	1	FL12	9'	12								X		3.3°					
834	9/22/25	Soil	1	FL13	9'	13								X		3.1°					
836	9/22/25	Soil	1	FL14	9'	14								X		2.9°					
838	9/22/25	Soil	1	FL15	9'	15								X		2.7°					
840	9/22/25	Soil	1	FL16	9'	16								X		3.9°					
842	9/22/25	Soil	1	FL17	9'	17								X		3.7°					
844	9/22/25	Soil	1	FL18	9'	18								X		3.5°					
846	9/22/25	Soil	1	SW1	0-9'	19								X		3.3°					
848	9/22/25	Soil	1	SW2	0-9'	20								X		3.6°					

## 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)

Relinquished by: (Signature)

Relinquished by: (Signature)

Date 9-22-25Date 9-22-25Date 9-22-25Time 1330Time 1430Time 1900

Received by: (Signature)

Received by: (Signature)

Received by: (Signature)

Date 9-22-25Date 9-22-25Date 9-22-25Time 1330Time 1430Time 1900

Received on ice:

 Y /  N

T1

T2

T3

AVG Temp °C

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.

Andrew Musso 9-22-25 2400

Noe Soto 9-23-25 0530



envirotech

Client: Matador Resources Company				Bill To Attention: Jason Touchet Address: 5400 LBJ Freeway Ste 1500 City, State, Zip: Dallas Phone: 3376523463 Email: jason.touchet@matadorresources.com			Lab Use Only		TAT															
Project: Dr K South							Lab WO# ES09244	Job Number 23052-0001	1D	2D	3D	Standard	CWA	SDWA										
Project Manager: Daniel Dominguez												X												
Address: 4024 Plains Hwy				Analysis and Method		Analysis and Method						RCRA												
City, State, Zip: Lovington, NM 88260, NM, 8826													State											
Phone: 575 393-3386													NM	CO	UT	AZ	TX							
Email: pm@hungry-horse.com				Remarks		Remarks							Remarks											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Depth	Lab Number	DRO/DRO by 8015	GR/GR by 8015	BTEX by 8021	VOOC by 8260	Metals 610	Chloride 3000	BGOC NM	BGOC TX									
850	9/22/25	Soil	1	SW3		0-9	21							X			4.1°							
852	9/22/25	Soil	1	SW4		0-9	22							X			3.5°							
854	9/22/25	Soil	1	SW5		0-9	23							X			3.7°							
856	9/22/25	Soil	1	SW6		0-9	24							X			3.8°							
858	9/22/25	Soil	1	SW7		0-4.5	25							X			3.5°							
900	9/22/25	Soil	1	SW8		4.5-9	26							X			3.3°							
902	9/22/25	Soil	1	SW9		4.5-9	27							X			3.1°							
904	9/22/25	Soil	1	SW10		4.5-9	28							X			3.4°							
920	9/22/25	Soil	1	Backfill		1'	29							X			3.3°							

## 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) <i>George B. Williams</i>	Date 9-22-25	Time 1330	Received by: (Signature) <i>Michelle Gonzales</i>	Date 9-22-25	Time 1330	Lab Use Only
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 9-22-25	Time 1430	Received by: (Signature) <i>Marissa Gonzales</i>	Date 9-22-25	Time 1430	Received on ice: <input checked="" type="radio"/> N
Relinquished by: (Signature) <i>Marissa Gonzales</i>	Date 9-22-25	Time 1900	Received by: (Signature) <i>Andrew Musso</i>	Date 9-22-25	Time 1900	T1 <input type="checkbox"/> T2 <input type="checkbox"/> T3 <input type="checkbox"/> AVG Temp °C

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.

Andrew Musso 9-22-25 2100 No Sd

9-22-25 0530



envirotech

## Envirotech Analytical Laboratory

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: 09/23/25 05:30	Work Order ID: E509244
Phone: (972) 371-5200	Date Logged In: 09/23/25 07:33	Logged In By: Noe Soto
Email: pm@hungry-horse.com	Due Date: 09/29/25 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 Carrier: Courier  
 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No  
 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.

**Sample Turn Around Time (TAT)**

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

**Sample Cooler**

7. Was a sample cooler received? Yes  
 8. If yes, was cooler received in good condition? Yes  
 9. Was the sample(s) received intact, i.e., not broken? No  
 10. Were custody/security seals present? No  
 11. If yes, were custody/security seals intact? NA  
 12. Was the sample received on ice? Yes  
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

**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
---	------

**Attachment VI**  
**Vertex and Talon Analytical Tables and Laboratory Analytical**  
**Reports**

Client Name: Matador Resources  
 Site Name: Dr. K South  
 NMOCD Tracking #: NAPP2126643846  
 Project #: 22E-04125  
 Lab Report: 2109F75

Table 2. Initial Characterization Field Screen and Laboratory Results

Sample ID	Depth (ft)	Sample Date	Field Screening			Petroleum Hydrocarbons											Inorganic	
						Volatile						Extractable						
			Volatile Organic Compounds (PbD) (ppm)	Extractable Organic Compounds (PetroFlag) (ppm)	Chloride Concentration (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (o&m) (mg/kg)	Xylenes (p) (mg/kg)	Xylenes (Total) (mg/kg)	BTX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
BG21-01	0.5	9/24/2021	0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BG21-01	1	9/24/2021	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BG21-01	2	9/24/2021	0	-	251	-	-	-	-	-	-	-	-	-	-	-	-	
BG21-01	4	9/24/2021	0	-	580	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250	
BG21-01	6	9/24/2021	0	-	500	-	-	-	-	-	-	-	-	-	-	-	-	
BG21-01	8	9/24/2021	0	-	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140	
BG21-02	2	9/24/2021	0	-	352	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140	
BH21-01	0.5	9/24/2021	0	47	260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BH21-02	0.5	9/24/2021	1	32	322	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BH21-03	0.5	9/24/2021	1	47	207	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BH21-04	0.5	9/24/2021	1	55	260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BH21-05	0.5	9/24/2021	14	-	13,200	ND	ND	ND	ND	ND	ND	ND	1300	1000	1300	2300	16000	
BH21-05	2	9/24/2021	14	-	8,420	-	-	-	-	-	-	-	-	-	-	-	-	
BH21-05	4	9/24/2021	8	-	8,268	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9700	
BH21-05	6	9/24/2021	6	-	6,895	-	-	-	-	-	-	-	-	-	-	-	-	
BH21-05	8	9/24/2021	6	-	6,032	ND	ND	ND	ND	ND	ND	ND	22	ND	22	22	4600	
BH21-06	0.5	9/24/2021	13	-	13,423	ND	ND	ND	ND	ND	ND	ND	8.3	400	250	408.3	658.3	
BH21-06	2	9/24/2021	10	-	8,865	-	-	-	-	-	-	-	-	-	-	-	-	
BH21-06	4	9/24/2021	9	-	7,201	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5000	
BH21-06	6	9/24/2021	8	-	6,924	-	-	-	-	-	-	-	-	-	-	-	-	
BH21-06	8	9/24/2021	9	-	6,180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6600	
BH21-07	0.5	9/24/2021	2	81	375	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	63	
BH21-08	0.5	9/24/2021	1	72	580	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	270	
BH21-09	0.5	9/24/2021	0	52	587	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	260	
BH21-10	0.5	9/24/2021	0	-	6,117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6200	
BH21-10	2	9/24/2021	1	-	4,630	-	-	-	-	-	-	-	-	-	-	-	-	
BH21-10	4	9/24/2021	10	-	7,972	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2300	
BH21-10	6	9/24/2021	5	-	8,639	-	-	-	-	-	-	-	-	-	-	-	-	
BH21-10	8	9/24/2021	7	-	5,462	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5400	
BH21-11	0.5	9/24/2021	0	29	377	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BH21-12	1	9/30/2021	-	-	11,157	-	-	-	-	-	-	-	-	-	-	-	-	
BH21-12	8	9/30/2021	-	-	4,092	-	-	-	-	-	-	-	-	-	-	-	-	
BH21-13	1	9/30/2021	-	-	585	-	-	-	-	-	-	-	-	-	-	-	-	
BH21-13	8	9/30/2021	-	-	3,427	-	-	-	-	-	-	-	-	-	-	-	-	
BH21-14	1	9/30/2021	-	-	8,002	-	-	-	-	-	-	-	-	-	-	-	-	
BH21-15	1	9/30/2021	-	-	13,167	-	-	-	-	-	-	-	-	-	-	-	-	
BH21-15	8	9/30/2021	-	-	3,122	-	-	-	-	-	-	-	-	-	-	-	-	

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

October 14, 2021

John Hurt

Vertex Resources Services, Inc.  
3101 Boyd Drive  
Carlsbad, NM 88220  
TEL: (505) 506-0040  
FAX

RE: Dr K South

OrderNo.: 2109F75

Dear John Hurt:

Hall Environmental Analysis Laboratory received 21 sample(s) on 9/28/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-01 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 8:00:00 AM**Lab ID:** 2109F75-001**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/1/2021 3:14:10 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/1/2021 3:14:10 AM
Surr: DNOP	83.2	70-130		%Rec	1	10/1/2021 3:14:10 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/3/2021 9:37:57 PM
Surr: BFB	103	70-130		%Rec	1	10/3/2021 9:37:57 PM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.023		mg/Kg	1	10/3/2021 9:37:57 PM
Toluene	ND	0.046		mg/Kg	1	10/3/2021 9:37:57 PM
Ethylbenzene	ND	0.046		mg/Kg	1	10/3/2021 9:37:57 PM
Xylenes, Total	ND	0.093		mg/Kg	1	10/3/2021 9:37:57 PM
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	1	10/3/2021 9:37:57 PM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	ND	60		mg/Kg	20	9/30/2021 11:01:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-02 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 8:10:00 AM**Lab ID:** 2109F75-002**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/30/2021 6:23:04 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 6:23:04 PM
Surr: DNOP	72.2	70-130		%Rec	1	9/30/2021 6:23:04 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/3/2021 10:01:19 PM
Surr: BFB	103	70-130		%Rec	1	10/3/2021 10:01:19 PM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.024		mg/Kg	1	10/3/2021 10:01:19 PM
Toluene	ND	0.047		mg/Kg	1	10/3/2021 10:01:19 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/3/2021 10:01:19 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/3/2021 10:01:19 PM
Surr: 4-Bromofluorobenzene	85.3	70-130		%Rec	1	10/3/2021 10:01:19 PM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	ND	61		mg/Kg	20	9/30/2021 11:13:49 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-03 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 8:20:00 AM**Lab ID:** 2109F75-003**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/30/2021 6:58:50 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 6:58:50 PM
Surr: DNOP	78.7	70-130		%Rec	1	9/30/2021 6:58:50 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/3/2021 11:11:39 PM
Surr: BFB	101	70-130		%Rec	1	10/3/2021 11:11:39 PM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.024		mg/Kg	1	10/3/2021 11:11:39 PM
Toluene	ND	0.048		mg/Kg	1	10/3/2021 11:11:39 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/3/2021 11:11:39 PM
Xylenes, Total	ND	0.097		mg/Kg	1	10/3/2021 11:11:39 PM
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	10/3/2021 11:11:39 PM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	ND	59		mg/Kg	20	9/30/2021 11:26:14 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-04 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 8:30:00 AM**Lab ID:** 2109F75-004**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/30/2021 7:10:50 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2021 7:10:50 PM
Surr: DNOP	80.3	70-130		%Rec	1	9/30/2021 7:10:50 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/4/2021 12:22:14 AM
Surr: BFB	98.4	70-130		%Rec	1	10/4/2021 12:22:14 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.025		mg/Kg	1	10/4/2021 12:22:14 AM
Toluene	ND	0.050		mg/Kg	1	10/4/2021 12:22:14 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2021 12:22:14 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/4/2021 12:22:14 AM
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	10/4/2021 12:22:14 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	ND	61		mg/Kg	20	9/30/2021 11:38:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-05 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 8:40:00 AM**Lab ID:** 2109F75-005**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	1300	93		mg/Kg	10	10/1/2021 11:22:26 AM
Motor Oil Range Organics (MRO)	1000	460		mg/Kg	10	10/1/2021 11:22:26 AM
Surr: DNOP	0	70-130	S	%Rec	10	10/1/2021 11:22:26 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/4/2021 12:45:47 AM
Surr: BFB	106	70-130		%Rec	1	10/4/2021 12:45:47 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.025		mg/Kg	1	10/4/2021 12:45:47 AM
Toluene	ND	0.050		mg/Kg	1	10/4/2021 12:45:47 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2021 12:45:47 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/4/2021 12:45:47 AM
Surr: 4-Bromofluorobenzene	80.4	70-130		%Rec	1	10/4/2021 12:45:47 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	16000	600		mg/Kg	200	10/1/2021 7:29:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-06 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 8:50:00 AM**Lab ID:** 2109F75-006**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	400		9.8	mg/Kg	1	9/30/2021 7:22:48 PM
Motor Oil Range Organics (MRO)	250		49	mg/Kg	1	9/30/2021 7:22:48 PM
Surr: DNOP	83.6		70-130	%Rec	1	9/30/2021 7:22:48 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	8.3		5.0	mg/Kg	1	10/4/2021 1:09:20 AM
Surr: BFB	121		70-130	%Rec	1	10/4/2021 1:09:20 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND		0.025	mg/Kg	1	10/4/2021 1:09:20 AM
Toluene	ND		0.050	mg/Kg	1	10/4/2021 1:09:20 AM
Ethylbenzene	ND		0.050	mg/Kg	1	10/4/2021 1:09:20 AM
Xylenes, Total	ND		0.099	mg/Kg	1	10/4/2021 1:09:20 AM
Surr: 4-Bromofluorobenzene	82.5		70-130	%Rec	1	10/4/2021 1:09:20 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	13000		600	mg/Kg	200	10/1/2021 7:42:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-07 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 9:00:00 AM**Lab ID:** 2109F75-007**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/30/2021 7:34:47 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 7:34:47 PM
Sur: DNOP	65.3	70-130	S	%Rec	1	9/30/2021 7:34:47 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 1:32:54 AM
Sur: BFB	102	70-130		%Rec	1	10/4/2021 1:32:54 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.024		mg/Kg	1	10/4/2021 1:32:54 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 1:32:54 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 1:32:54 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/4/2021 1:32:54 AM
Sur: 4-Bromofluorobenzene	83.3	70-130		%Rec	1	10/4/2021 1:32:54 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	63	60		mg/Kg	20	10/1/2021 12:15:50 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-08 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 9:10:00 AM**Lab ID:** 2109F75-008**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/30/2021 7:46:47 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2021 7:46:47 PM
Surr: DNOP	108	70-130		%Rec	1	9/30/2021 7:46:47 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/4/2021 1:56:26 AM
Surr: BFB	106	70-130		%Rec	1	10/4/2021 1:56:26 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.025		mg/Kg	1	10/4/2021 1:56:26 AM
Toluene	ND	0.050		mg/Kg	1	10/4/2021 1:56:26 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/4/2021 1:56:26 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/4/2021 1:56:26 AM
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	10/4/2021 1:56:26 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	270	59		mg/Kg	20	10/1/2021 12:28:14 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-09 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 9:20:00 AM**Lab ID:** 2109F75-009**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2021 7:58:47 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 7:58:47 PM
Surr: DNOP	57.5	70-130	S	%Rec	1	9/30/2021 7:58:47 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/4/2021 2:20:00 AM
Surr: BFB	102	70-130		%Rec	1	10/4/2021 2:20:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.023		mg/Kg	1	10/4/2021 2:20:00 AM
Toluene	ND	0.046		mg/Kg	1	10/4/2021 2:20:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/4/2021 2:20:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	10/4/2021 2:20:00 AM
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	10/4/2021 2:20:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	260	60		mg/Kg	20	10/1/2021 1:42:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

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**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-10 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 9:30:00 AM**Lab ID:** 2109F75-010**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2021 8:10:50 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2021 8:10:50 PM
Sur: DNOP	66.4	70-130	S	%Rec	1	9/30/2021 8:10:50 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 2:43:33 AM
Sur: BFB	101	70-130		%Rec	1	10/4/2021 2:43:33 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.024		mg/Kg	1	10/4/2021 2:43:33 AM
Toluene	ND	0.049		mg/Kg	1	10/4/2021 2:43:33 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 2:43:33 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/4/2021 2:43:33 AM
Sur: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	10/4/2021 2:43:33 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	6200	300		mg/Kg	100	10/6/2021 6:33:55 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-11 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 9:40:00 AM**Lab ID:** 2109F75-011**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/30/2021 8:22:52 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2021 8:22:52 PM
Sur: DNOP	61.5	70-130	S	%Rec	1	9/30/2021 8:22:52 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 3:54:09 AM
Sur: BFB	103	70-130		%Rec	1	10/4/2021 3:54:09 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.024		mg/Kg	1	10/4/2021 3:54:09 AM
Toluene	ND	0.047		mg/Kg	1	10/4/2021 3:54:09 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 3:54:09 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/4/2021 3:54:09 AM
Sur: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	10/4/2021 3:54:09 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	ND	60		mg/Kg	20	10/1/2021 3:21:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-05 4'**Project:** Dr K South**Collection Date:** 9/24/2021 9:50:00 AM**Lab ID:** 2109F75-012**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2021 8:34:49 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 8:34:49 PM
Surr: DNOP	83.7	70-130		%Rec	1	9/30/2021 8:34:49 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 4:17:36 AM
Surr: BFB	101	70-130		%Rec	1	10/4/2021 4:17:36 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.024		mg/Kg	1	10/4/2021 4:17:36 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 4:17:36 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 4:17:36 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/4/2021 4:17:36 AM
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	10/4/2021 4:17:36 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	9700	300		mg/Kg	100	10/6/2021 6:46:19 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-05 8**Project:** Dr K South**Collection Date:** 9/24/2021 10:00:00 AM**Lab ID:** 2109F75-013**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	22		9.7	mg/Kg	1	9/30/2021 8:46:47 PM
Motor Oil Range Organics (MRO)	ND		49	mg/Kg	1	9/30/2021 8:46:47 PM
Surr: DNOP	87.3		70-130	%Rec	1	9/30/2021 8:46:47 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND		4.8	mg/Kg	1	10/4/2021 4:41:06 AM
Surr: BFB	102		70-130	%Rec	1	10/4/2021 4:41:06 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND		0.024	mg/Kg	1	10/4/2021 4:41:06 AM
Toluene	ND		0.048	mg/Kg	1	10/4/2021 4:41:06 AM
Ethylbenzene	ND		0.048	mg/Kg	1	10/4/2021 4:41:06 AM
Xylenes, Total	ND		0.096	mg/Kg	1	10/4/2021 4:41:06 AM
Surr: 4-Bromofluorobenzene	83.4		70-130	%Rec	1	10/4/2021 4:41:06 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	4600		150	mg/Kg	50	10/6/2021 6:58:44 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-06 4'**Project:** Dr K South**Collection Date:** 9/24/2021 10:10:00 AM**Lab ID:** 2109F75-014**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/30/2021 8:58:43 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 8:58:43 PM
Surr: DNOP	85.2	70-130		%Rec	1	9/30/2021 8:58:43 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 5:04:36 AM
Surr: BFB	103	70-130		%Rec	1	10/4/2021 5:04:36 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.024		mg/Kg	1	10/4/2021 5:04:36 AM
Toluene	ND	0.049		mg/Kg	1	10/4/2021 5:04:36 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 5:04:36 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/4/2021 5:04:36 AM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	10/4/2021 5:04:36 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	5000	300		mg/Kg	100	10/6/2021 7:11:09 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-06 8'**Project:** Dr K South**Collection Date:** 9/24/2021 10:20:00 AM**Lab ID:** 2109F75-015**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/30/2021 9:10:48 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2021 9:10:48 PM
Sur: DNOP	87.1	70-130		%Rec	1	9/30/2021 9:10:48 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 5:28:01 AM
Sur: BFB	101	70-130		%Rec	1	10/4/2021 5:28:01 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.024		mg/Kg	1	10/4/2021 5:28:01 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 5:28:01 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 5:28:01 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/4/2021 5:28:01 AM
Sur: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	10/4/2021 5:28:01 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	6600	300		mg/Kg	100	10/6/2021 7:23:33 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-10 4'**Project:** Dr K South**Collection Date:** 9/24/2021 10:30:00 AM**Lab ID:** 2109F75-016**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2021 9:22:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 9:22:35 PM
Sur: DNOP	112	70-130		%Rec	1	9/30/2021 9:22:35 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 5:51:28 AM
Sur: BFB	102	70-130		%Rec	1	10/4/2021 5:51:28 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.024		mg/Kg	1	10/4/2021 5:51:28 AM
Toluene	ND	0.047		mg/Kg	1	10/4/2021 5:51:28 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 5:51:28 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/4/2021 5:51:28 AM
Sur: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	10/4/2021 5:51:28 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	2300		60	mg/Kg	20	10/1/2021 4:23:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BH21-10 8**Project:** Dr K South**Collection Date:** 9/24/2021 10:40:00 AM**Lab ID:** 2109F75-017**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/30/2021 9:34:31 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 9:34:31 PM
Surr: DNOP	87.0	70-130		%Rec	1	9/30/2021 9:34:31 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/4/2021 6:14:51 AM
Surr: BFB	101	70-130		%Rec	1	10/4/2021 6:14:51 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.023		mg/Kg	1	10/4/2021 6:14:51 AM
Toluene	ND	0.046		mg/Kg	1	10/4/2021 6:14:51 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/4/2021 6:14:51 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/4/2021 6:14:51 AM
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	10/4/2021 6:14:51 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	5400	300		mg/Kg	100	10/6/2021 7:35:58 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BG21-01 0.5'**Project:** Dr K South**Collection Date:** 9/24/2021 10:50:00 AM**Lab ID:** 2109F75-018**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/30/2021 9:46:19 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 9:46:19 PM
Surr: DNOP	67.4	70-130	S	%Rec	1	9/30/2021 9:46:19 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 6:38:15 AM
Surr: BFB	103	70-130		%Rec	1	10/4/2021 6:38:15 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.023		mg/Kg	1	10/4/2021 6:38:15 AM
Toluene	ND	0.047		mg/Kg	1	10/4/2021 6:38:15 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 6:38:15 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/4/2021 6:38:15 AM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	10/4/2021 6:38:15 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	ND	60		mg/Kg	20	10/1/2021 4:48:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BG21-01 4'**Project:** Dr K South**Collection Date:** 9/24/2021 11:00:00 AM**Lab ID:** 2109F75-019**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2021 9:58:16 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2021 9:58:16 PM
Surr: DNOP	71.7	70-130		%Rec	1	9/30/2021 9:58:16 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 7:01:37 AM
Surr: BFB	99.5	70-130		%Rec	1	10/4/2021 7:01:37 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.024		mg/Kg	1	10/4/2021 7:01:37 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 7:01:37 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 7:01:37 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/4/2021 7:01:37 AM
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	10/4/2021 7:01:37 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	250	59		mg/Kg	20	10/1/2021 5:00:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BG21-01 8**Project:** Dr K South**Collection Date:** 9/24/2021 11:10:00 AM**Lab ID:** 2109F75-020**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/30/2021 10:10:03 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2021 10:10:03 PM
Surr: DNOP	74.0	70-130		%Rec	1	9/30/2021 10:10:03 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 7:25:00 AM
Surr: BFB	101	70-130		%Rec	1	10/4/2021 7:25:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.024		mg/Kg	1	10/4/2021 7:25:00 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 7:25:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 7:25:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/4/2021 7:25:00 AM
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	10/4/2021 7:25:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	140	60		mg/Kg	20	10/1/2021 5:13:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 2109F75

Date Reported: 10/14/2021

**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** BG21-02 2'**Project:** Dr K South**Collection Date:** 9/24/2021 11:20:00 AM**Lab ID:** 2109F75-021**Matrix:** SOIL**Received Date:** 9/28/2021 9:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/30/2021 10:22:02 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2021 10:22:02 PM
Surr: DNOP	71.7	70-130		%Rec	1	9/30/2021 10:22:02 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 8:35:11 AM
Surr: BFB	101	70-130		%Rec	1	10/4/2021 8:35:11 AM
<b>EPA METHOD 8021B: VOLATILES</b>						
Benzene	ND	0.024		mg/Kg	1	10/4/2021 8:35:11 AM
Toluene	ND	0.048		mg/Kg	1	10/4/2021 8:35:11 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 8:35:11 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/4/2021 8:35:11 AM
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	10/4/2021 8:35:11 AM
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	ND	60		mg/Kg	20	10/1/2021 5:50:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109F75

14-Oct-21

**Client:** Vertex Resources Services, Inc.**Project:** Dr K South

Sample ID: <b>MB-62955</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>PBS</b>	Batch ID: <b>62955</b>	RunNo: <b>81714</b>
Prep Date: <b>9/30/2021</b>	Analysis Date: <b>9/30/2021</b>	SeqNo: <b>2889055</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: <b>LCS-62955</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>LCSS</b>	Batch ID: <b>62955</b>	RunNo: <b>81714</b>
Prep Date: <b>9/30/2021</b>	Analysis Date: <b>9/30/2021</b>	SeqNo: <b>2889056</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 95.8 90 110

Sample ID: <b>MB-62961</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>PBS</b>	Batch ID: <b>62961</b>	RunNo: <b>81741</b>
Prep Date: <b>10/1/2021</b>	Analysis Date: <b>10/1/2021</b>	SeqNo: <b>2890158</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: <b>LCS-62961</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>LCSS</b>	Batch ID: <b>62961</b>	RunNo: <b>81741</b>
Prep Date: <b>10/1/2021</b>	Analysis Date: <b>10/1/2021</b>	SeqNo: <b>2890159</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.3 90 110

<b>Qualifiers:</b>	
*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109F75

14-Oct-21

**Client:** Vertex Resources Services, Inc.**Project:** Dr K South

Sample ID: <b>MB-62919</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>									
Client ID: <b>PBS</b>	Batch ID: <b>62919</b>	RunNo: <b>81694</b>									
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>9/30/2021</b>	SeqNo: <b>2888406</b> Units: <b>mg/Kg</b>									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	11		10.00			107	70	130			
Sample ID: <b>MB-62925</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>									
Client ID: <b>PBS</b>	Batch ID: <b>62925</b>	RunNo: <b>81694</b>									
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>9/30/2021</b>	SeqNo: <b>2888407</b> Units: <b>mg/Kg</b>									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	11		10.00			109	70	130			
Sample ID: <b>LCS-62919</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>									
Client ID: <b>LCSS</b>	Batch ID: <b>62919</b>	RunNo: <b>81694</b>									
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>9/30/2021</b>	SeqNo: <b>2888408</b> Units: <b>mg/Kg</b>									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	68.9	135				
Surr: DNOP	4.8		5.000		96.6	70	130				
Sample ID: <b>LCS-62925</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>									
Client ID: <b>LCSS</b>	Batch ID: <b>62925</b>	RunNo: <b>81694</b>									
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>9/30/2021</b>	SeqNo: <b>2888409</b> Units: <b>mg/Kg</b>									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	45	10	50.00	0	89.9	68.9	135				
Surr: DNOP	4.8		5.000		95.8	70	130				
Sample ID: <b>2109F75-002AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>									
Client ID: <b>BH21-02 0.5'</b>	Batch ID: <b>62925</b>	RunNo: <b>81694</b>									
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>9/30/2021</b>	SeqNo: <b>2888469</b> Units: <b>mg/Kg</b>									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	36	9.7	48.69	0	74.5	39.3	155				
Surr: DNOP	3.5		4.869		71.5	70	130				

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **2109F75****14-Oct-21****Client:** Vertex Resources Services, Inc.**Project:** Dr K South

Sample ID: <b>2109F75-002AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH21-02 0.5'</b>	Batch ID: <b>62925</b>	RunNo: <b>81694</b>								
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>9/30/2021</b>	SeqNo: <b>2888471</b> Units: <b>mg/Kg</b>								
<b>Analyte</b>	<b>Result</b>	<b>PQL</b> <b>SPK value</b> <b>SPK Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>								
Diesel Range Organics (DRO)	39	9.7	48.31	0	80.8	39.3	155	7.35	23.4	
Surr: DNOP	3.9		4.831		81.5	70	130	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109F75

14-Oct-21

**Client:** Vertex Resources Services, Inc.**Project:** Dr K South

Sample ID: <b>Ics-62908</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62908</b>	RunNo: <b>81717</b>								
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>10/1/2021</b>	SeqNo: <b>2889714</b> Units: <b>mg/Kg</b>								
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>%RPD</b>	<b>RPDLimit</b>	<b>Qual</b>
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	78.6	131			
Sur: BFB	1200		1000		123	70	130			
Sample ID: <b>mb-62908</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62908</b>	RunNo: <b>81717</b>								
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>10/1/2021</b>	SeqNo: <b>2889716</b> Units: <b>mg/Kg</b>								
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>%RPD</b>	<b>RPDLimit</b>	<b>Qual</b>
Gasoline Range Organics (GRO)	ND	5.0								
Sur: BFB	1200		1000		120	70	130			
Sample ID: <b>mb-62915</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62915</b>	RunNo: <b>81769</b>								
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>10/3/2021</b>	SeqNo: <b>2891569</b> Units: <b>mg/Kg</b>								
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>%RPD</b>	<b>RPDLimit</b>	<b>Qual</b>
Gasoline Range Organics (GRO)	ND	5.0								
Sur: BFB	1100		1000		107	70	130			
Sample ID: <b>Ics-62915</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62915</b>	RunNo: <b>81769</b>								
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>10/3/2021</b>	SeqNo: <b>2891570</b> Units: <b>mg/Kg</b>								
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>%RPD</b>	<b>RPDLimit</b>	<b>Qual</b>
Gasoline Range Organics (GRO)	30	5.0	25.00	0	120	78.6	131			
Sur: BFB	1100		1000		114	70	130			
Sample ID: <b>2109f75-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH21-02 0.5'</b>	Batch ID: <b>62915</b>	RunNo: <b>81769</b>								
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>10/3/2021</b>	SeqNo: <b>2891572</b> Units: <b>mg/Kg</b>								
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>%RPD</b>	<b>RPDLimit</b>	<b>Qual</b>
Gasoline Range Organics (GRO)	28	4.9	24.61	0	112	61.3	114			
Sur: BFB	1200		984.3		117	70	130			
Sample ID: <b>2109f75-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH21-02 0.5'</b>	Batch ID: <b>62915</b>	RunNo: <b>81769</b>								
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>10/3/2021</b>	SeqNo: <b>2891573</b> Units: <b>mg/Kg</b>								
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>%RPD</b>	<b>RPDLimit</b>	<b>Qual</b>

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **2109F75****14-Oct-21****Client:** Vertex Resources Services, Inc.**Project:** Dr K South

Sample ID: <b>2109F75-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH21-02 0.5'</b>	Batch ID: <b>62915</b>	RunNo: <b>81769</b>								
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>10/3/2021</b>	SeqNo: <b>2891573</b> Units: <b>mg/Kg</b>								
<b>Analyte</b>	<b>Result</b>	<b>PQL</b> <b>SPK value</b> <b>SPK Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>								
Gasoline Range Organics (GRO)	24	4.9	24.37	0	99.0	61.3	114	13.2	20	
Surr: BFB	1100		974.7		114	70	130	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109F75

14-Oct-21

**Client:** Vertex Resources Services, Inc.**Project:** Dr K South

Sample ID: <b>LCS-62908</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>62908</b>			RunNo: <b>81717</b>						
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>10/1/2021</b>			SeqNo: <b>2889767</b> Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.6	80	120			
Toluene	0.99	0.050	1.000	0	99.0	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: <b>mb-62908</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>62908</b>			RunNo: <b>81717</b>						
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>10/1/2021</b>			SeqNo: <b>2889769</b> Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: <b>mb-62915</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>62915</b>			RunNo: <b>81769</b>						
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>10/3/2021</b>			SeqNo: <b>2891632</b> Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.5	70	130			

Sample ID: <b>LCS-62915</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>62915</b>			RunNo: <b>81769</b>						
Prep Date: <b>9/29/2021</b>	Analysis Date: <b>10/3/2021</b>			SeqNo: <b>2891633</b> Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.7	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.2	70	130			

Qualifiers:										
*	Value exceeds Maximum Contaminant Level.									
D	Sample Diluted Due to Matrix									
H	Holding times for preparation or analysis exceeded									
ND	Not Detected at the Reporting Limit									
PQL	Practical Quantitative Limit									
S	% Recovery outside of range due to dilution or matrix									
B	Analyte detected in the associated Method Blank									
E	Value above quantitation range									
J	Analyte detected below quantitation limits									
P	Sample pH Not In Range									
RL	Reporting Limit									

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2109F75

14-Oct-21

**Client:** Vertex Resources Services, Inc.**Project:** Dr K South

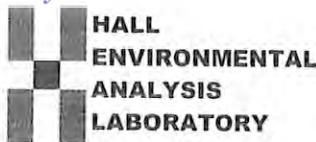
Sample ID: 2109f75-003ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH21-03 0.5'	Batch ID: 62915	RunNo: 81769								
Prep Date: 9/29/2021	Analysis Date: 10/3/2021	SeqNo: 2891636 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9690	0	91.2	80	120			
Toluene	0.90	0.048	0.9690	0	93.3	80	120			
Ethylbenzene	0.90	0.048	0.9690	0	92.7	80	120			
Xylenes, Total	2.7	0.097	2.907	0	91.5	80	120			
Surr: 4-Bromofluorobenzene	0.82		0.9690		84.8	70	130			

Sample ID: 2109f75-003amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH21-03 0.5'	Batch ID: 62915	RunNo: 81769								
Prep Date: 9/29/2021	Analysis Date: 10/3/2021	SeqNo: 2891637 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9569	0	89.8	80	120	2.78	20	
Toluene	0.88	0.048	0.9569	0	92.0	80	120	2.68	20	
Ethylbenzene	0.89	0.048	0.9569	0	92.6	80	120	1.35	20	
Xylenes, Total	2.6	0.096	2.871	0	90.6	80	120	2.28	20	
Surr: 4-Bromofluorobenzene	0.82		0.9569		86.0	70	130	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2109F75 RcptNo: 1

Received By: Cheyenne Cason 9/28/2021 9:10:00 AM *Cheyenne*

Completed By: Sean Livingston 9/28/2021 9:42:35 AM *Sean Livingston*

Reviewed By: *TML* 9/28/21 *SL*

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present

2. How was the sample delivered? Client

### Log In

3. Was an attempt made to cool the samples? Yes  No  NA

4. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA

5. Sample(s) in proper container(s)? Yes  No

6. Sufficient sample volume for indicated test(s)? Yes  No

7. Are samples (except VOA and ONG) properly preserved? Yes  No

8. Was preservative added to bottles? Yes  No  NA

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes  No  NA

10. Were any sample containers received broken? Yes  No

11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes  No

12. Are matrices correctly identified on Chain of Custody? Yes  No

13. Is it clear what analyses were requested? Yes  No

14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH:  
(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: *KPL 9/28/21*

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	Date:
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	
Client Instructions:	

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good				
2	0.6	Good				





**Table 1****Confirmation Samples**

Incident # NAPP2126643846

Dr. K South Tank Battery									
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 combined = 1000 mg/kg		-	2500 mg/kg	10000 mg/kg
C-1	11/9/2023	4.5'	ND	ND	ND	ND	ND	ND	1400
C-2	11/9/2023	4.5'	ND	ND	ND	ND	ND	ND	3790
C-3	11/9/2023	4.5'	ND	ND	ND	ND	ND	ND	656
C-4	11/9/2023	4.5'	ND	ND	ND	ND	ND	ND	3570
C-5	11/9/2023	4.5'	ND	ND	ND	ND	ND	ND	3130
C-6	11/9/2023	4.5'	ND	ND	ND	ND	ND	ND	2620
C-7	11/29/2023	4.5'	ND	ND	ND	ND	ND	ND	7810
C-8	11/29/2023	4.5'	ND	ND	ND	ND	ND	ND	8530
C-9	11/29/2023	4.5'	ND	ND	ND	ND	ND	ND	7840
C-10	11/29/2023	4.5'	ND	ND	ND	ND	ND	ND	6950
SW-1	11/9/2023	-	ND	ND	ND	ND	ND	ND	29.1
SW-2	11/9/2023	-	ND	ND	ND	ND	ND	ND	31.9
SW-3	11/9/2023	-	ND	ND	ND	ND	ND	ND	21.8
SW-4	11/9/2023	-	ND	ND	ND	ND	ND	ND	506
SW-5	11/9/2023	-	ND	ND	ND	ND	ND	ND	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  
**C** Confirmation sample  
**SW** Sidewall Sample  
**ND** Analyte not detected

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

Report to:

Chad Hensley



5796 U.S. Hwy 64  
Farmington, NM 87401

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Dr. K

Work Order: E311087

Job Number: 23052-0001

Received: 11/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/16/23

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

Date Reported: 11/16/23

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



Project Name: Dr. K  
Workorder: E311087  
Date Received: 11/10/2023 7:00:00AM

Chad Hensley,

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

The analytical test results summarized in this report with the Project Name: Dr. K 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**  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/23 15:16
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-1 4.5'	E311087-01A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
C-2 4.5'	E311087-02A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
C-3 4.5'	E311087-03A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
C-4 4.5'	E311087-04A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
C-5 4.5'	E311087-05A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
C-6 4.5'	E311087-06A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
SW-1	E311087-07A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
SW-2	E311087-08A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
SW-3	E311087-09A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
SW-4	E311087-10A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.
SW-5	E311087-11A	Soil	11/09/23	11/10/23	Glass Jar, 4 oz.

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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C-1 4.5'

E311087-01

Analyte	Result	Reporting		Prepared	Analyzed	Notes
		Limit	Dilution			
<b>Volatile Organics by EPA 8021B</b>						
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
Surrogate: 4-Bromochlorobenzene-PID	93.1 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.4 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/15/23	
Surrogate: n-Nonane	93.5 %	50-200		11/15/23	11/15/23	
<b>Anions by EPA 300.0/9056A</b>						
Chloride	1400	200	10	11/14/23	11/15/23	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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C-2 4.5'

E311087-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
Surrogate: 4-Bromochlorobenzene-PID	94.4 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.4 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/15/23	
Surrogate: n-Nonane	98.8 %	50-200		11/15/23	11/15/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	<b>3790</b>	200	10	11/14/23	11/15/23	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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C-3 4.5'

E311087-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130		11/13/23	11/15/23
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130		11/13/23	11/15/23
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane		93.6 %	50-200		11/15/23	11/16/23
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	<b>656</b>	200	10	11/14/23	11/16/23	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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C-4 4.5'

E311087-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
Surrogate: 4-Bromochlorobenzene-PID	94.9 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	92.6 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	<b>3570</b>	200	10	11/14/23	11/15/23	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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C-5 4.5'

E311087-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
Surrogate: 4-Bromochlorobenzene-PID	95.4 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	91.5 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	3130	200	10	11/14/23	11/16/23	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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C-6 4.5'

E311087-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
Surrogate: 4-Bromochlorobenzene-PID	95.2 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.3 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	96.0 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	<b>2620</b>	200	10	11/14/23	11/16/23	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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SW-1

E311087-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
Surrogate: 4-Bromochlorobenzene-PID	97.2 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	93.8 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	<b>29.1</b>	20.0	1	11/14/23	11/16/23	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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SW-2

E311087-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
Surrogate: 4-Bromochlorobenzene-PID	98.4 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.0 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	91.1 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	31.9	20.0	1	11/14/23	11/16/23	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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SW-3

E311087-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	92.6 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	<b>21.8</b>	20.0	1	11/14/23	11/16/23	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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SW-4

E311087-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130		11/13/23	11/15/23
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	70-130		11/13/23	11/15/23
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane		92.7 %	50-200		11/15/23	11/16/23
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	<b>506</b>	200	10	11/14/23	11/16/23	

## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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SW-5

E311087-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Benzene	ND	0.0250	1	11/13/23	11/15/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/15/23	
Toluene	ND	0.0250	1	11/13/23	11/15/23	
o-Xylene	ND	0.0250	1	11/13/23	11/15/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/15/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/15/23	
Surrogate: 4-Bromochlorobenzene-PID	98.8 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2346016
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.1 %	70-130		11/13/23	11/15/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2346041
Diesel Range Organics (C10-C28)	ND	25.0	1	11/15/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/15/23	11/16/23	
Surrogate: n-Nonane	105 %	50-200		11/15/23	11/16/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2346032
Chloride	ND	20.0	1	11/14/23	11/16/23	

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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## Volatile Organics by EPA 8021B

Analyst: RAS

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 (2346016-BLK1)

Prepared: 11/13/23 Analyzed: 11/15/23

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

7.52 8.00 94.0 70-130

## LCS (2346016-BS1)

Prepared: 11/13/23 Analyzed: 11/15/23

Benzene	4.99	0.0250	5.00	99.7	70-130				
Ethylbenzene	4.91	0.0250	5.00	98.2	70-130				
Toluene	4.97	0.0250	5.00	99.4	70-130				
o-Xylene	4.93	0.0250	5.00	98.5	70-130				
p,m-Xylene	9.99	0.0500	10.0	99.9	70-130				
Total Xylenes	14.9	0.0250	15.0	99.5	70-130				

Surrogate: 4-Bromochlorobenzene-PID

7.51 8.00 93.8 70-130

## Matrix Spike (2346016-MS1)

Source: E311071-02

Prepared: 11/13/23 Analyzed: 11/15/23

Benzene	4.76	0.0250	5.00	ND	95.3	54-133			
Ethylbenzene	4.68	0.0250	5.00	ND	93.6	61-133			
Toluene	4.73	0.0250	5.00	ND	94.6	61-130			
o-Xylene	4.69	0.0250	5.00	ND	93.8	63-131			
p,m-Xylene	9.52	0.0500	10.0	ND	95.2	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.7	63-131			

Surrogate: 4-Bromochlorobenzene-PID

7.52 8.00 94.0 70-130

## Matrix Spike Dup (2346016-MSD1)

Source: E311071-02

Prepared: 11/13/23 Analyzed: 11/15/23

Benzene	4.83	0.0250	5.00	ND	96.6	54-133	1.38	20	
Ethylbenzene	4.77	0.0250	5.00	ND	95.3	61-133	1.85	20	
Toluene	4.82	0.0250	5.00	ND	96.4	61-130	1.87	20	
o-Xylene	4.80	0.0250	5.00	ND	95.9	63-131	2.30	20	
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	63-131	2.06	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131	2.14	20	

Surrogate: 4-Bromochlorobenzene-PID

7.46 8.00 93.3 70-130

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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## Blank (2346016-BLK1)

Prepared: 11/13/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.2	70-130		

## LCS (2346016-BS2)

Prepared: 11/13/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		89.9	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.2	70-130		

## Matrix Spike (2346016-MS2)

Source: E311071-02

Prepared: 11/13/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.8	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130		

## Matrix Spike Dup (2346016-MSD2)

Source: E311071-02

Prepared: 11/13/23 Analyzed: 11/15/23

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.4	70-130	8.21	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130		

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Dr. K 23052-0001 Chad Hensley	Reported: 11/16/2023 3:16:56PM
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## 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

## Blank (2346041-BLK1)

Prepared: 11/15/23 Analyzed: 11/15/23

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	50.6		50.0		101	50-200		

## LCS (2346041-BS1)

Prepared: 11/15/23 Analyzed: 11/15/23

Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132		
Surrogate: n-Nonane	51.3		50.0		103	50-200		

## Matrix Spike (2346041-MS1)

Source: E311087-02

Prepared: 11/15/23 Analyzed: 11/15/23

Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132		
Surrogate: n-Nonane	54.2		50.0		108	50-200		

## Matrix Spike Dup (2346041-MSD1)

Source: E311087-02

Prepared: 11/15/23 Analyzed: 11/15/23

Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	2.33	20
Surrogate: n-Nonane	53.6		50.0		107	50-200		

## QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/2023 3:16:56PM
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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 (2346032-BLK1)

Prepared: 11/14/23 Analyzed: 11/15/23

Chloride ND 20.0

## LCS (2346032-BS1)

Prepared: 11/14/23 Analyzed: 11/15/23

Chloride 245 20.0 250 97.9 90-110

## Matrix Spike (2346032-MS1)

Source: E311087-04 Prepared: 11/14/23 Analyzed: 11/15/23

Chloride 3640 200 250 3570 30.8 80-120 M4

## Matrix Spike Dup (2346032-MSD1)

Source: E311087-04 Prepared: 11/14/23 Analyzed: 11/15/23

Chloride 3790 200 250 3570 91.1 80-120 4.05 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Dr. K Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/16/23 15:16
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M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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

I, [field sampler], attest to the validity and authenticity of this sample. I am aware

Samples requiring thermal preservation must be received on ice the day they are sampled or received

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

samples is applicable only to those samples received by the laboratory within this CQC. The liability of the laboratory is limited to the amount paid for the samples.

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

Page 2 of 2

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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.

or intentionally mislabelling the sample location.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with date or time of collection is considered fraud and may be grounds for legal action.	
Relinquished by: (Signature)	Date 11-9-25 Time
Relinquished by: (Signature)	Date 11-9-23 Time 1730
Relinquished by: (Signature)	Date 11-9-25 Time
Relinquished by: (Signature)	Date 11-9-25 Time 2400

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

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.

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

## Envirotech Analytical Laboratory

Printed: 11/13/2023 11:24:21AM

## 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.  
 Phone: (972) 371-5200  
 Email:

Date Received: 11/10/23 07:00  
 Date Logged In: 11/10/23 10:17  
 Due Date: 11/16/23 17:00 (4 day TAT)

Work Order ID: E311087  
 Logged In By: Raina Schwanz

Chain of Custody (COC)

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

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes  
Sample Cooler  
 7. Was a sample cooler received? Yes  
 8. If yes, was cooler received in good condition? Yes  
 9. Was the sample(s) received intact, i.e., not broken? No  
 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
---	------

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

Date



envirotech Inc.

Report to:

Chad Hensley



5796 U.S. Hwy 64  
Farmington, NM 87401

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Talon LPE

Project Name: Dr.k South Tank Battery

Work Order: E311228

Job Number: 23052-0001

Received: 11/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/6/23

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

Date Reported: 12/6/23



Chad Hensley  
408 W Texas Ave  
Artesia, NM 88210

Project Name: Dr.k South Tank Battery  
Workorder: E311228  
Date Received: 11/30/2023 7:30:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/30/2023 7:30:00AM, under the Project Name: Dr.k South Tank Battery.

The analytical test results summarized in this report with the Project Name: Dr.k South Tank Battery 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**  
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## Sample Summary

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Dr.k South Tank Battery Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 12/06/23 15:03
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-7 4.5'	E311228-01A	Soil	11/29/23	11/30/23	Glass Jar, 2 oz.
C-8 4.5'	E311228-02A	Soil	11/29/23	11/30/23	Glass Jar, 2 oz.
C-9 4.5'	E311228-03A	Soil	11/29/23	11/30/23	Glass Jar, 2 oz.
C-10 4.5'	E311228-04A	Soil	11/29/23	11/30/23	Glass Jar, 2 oz.

## Sample Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Dr.k South Tank Battery Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 12/6/2023 3:03:45PM
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C-7 4.5'

E311228-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
Surrogate: 4-Bromochlorobenzene-PID	92.8 %	70-130		11/30/23	12/02/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		11/30/23	12/02/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
Surrogate: n-Nonane	92.2 %	50-200		12/05/23	12/06/23	
<b>Anions by EPA 300.0/9056A</b>						
Chloride	7810	200	10	12/04/23	12/04/23	

## Sample Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Dr.k South Tank Battery Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 12/6/2023 3:03:45PM
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C-8 4.5'

E311228-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2348091
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
Surrogate: 4-Bromochlorobenzene-PID	92.5 %	70-130		11/30/23	12/02/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2348091
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.2 %	70-130		11/30/23	12/02/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
Surrogate: n-Nonane	93.4 %	50-200		12/05/23	12/06/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2349010
Chloride	8530	200	10	12/04/23	12/04/23	

## Sample Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Dr.k South Tank Battery Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 12/6/2023 3:03:45PM
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C-9 4.5'

E311228-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2348091
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
Surrogate: 4-Bromochlorobenzene-PID	92.5 %	70-130		11/30/23	12/02/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2348091
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.1 %	70-130		11/30/23	12/02/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
Surrogate: n-Nonane	90.6 %	50-200		12/05/23	12/06/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2349010
Chloride	<b>7840</b>	200	10	12/04/23	12/04/23	

## Sample Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Dr.k South Tank Battery Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 12/6/2023 3:03:45PM
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C-10 4.5'

E311228-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2348091
Benzene	ND	0.0250	1	11/30/23	12/02/23	
Ethylbenzene	ND	0.0250	1	11/30/23	12/02/23	
Toluene	ND	0.0250	1	11/30/23	12/02/23	
o-Xylene	ND	0.0250	1	11/30/23	12/02/23	
p,m-Xylene	ND	0.0500	1	11/30/23	12/02/23	
Total Xylenes	ND	0.0250	1	11/30/23	12/02/23	
Surrogate: 4-Bromochlorobenzene-PID	92.5 %	70-130		11/30/23	12/02/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2348091
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/30/23	12/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.5 %	70-130		11/30/23	12/02/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
Surrogate: n-Nonane	93.4 %	50-200		12/05/23	12/06/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: BA		Batch: 2349010
Chloride	<b>6950</b>	200	10	12/04/23	12/04/23	

## QC Summary Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Dr.k South Tank Battery Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 12/6/2023 3:03:45PM
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## 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	%	%	%	%	

## Blank (2348091-BLK1)

Prepared: 11/30/23 Analyzed: 12/01/23

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

7.56 8.00 94.5 70-130

## LCS (2348091-BS1)

Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	5.12	0.0250	5.00		102	70-130			
Toluene	5.19	0.0250	5.00		104	70-130			
o-Xylene	5.14	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			

Surrogate: 4-Bromochlorobenzene-PID

7.58 8.00 94.8 70-130

## Matrix Spike (2348091-MS1)

Source: E311234-08

Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	5.17	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.14	0.0250	5.00	ND	103	61-130			
o-Xylene	5.07	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			

Surrogate: 4-Bromochlorobenzene-PID

7.46 8.00 93.2 70-130

## Matrix Spike Dup (2348091-MSD1)

Source: E311234-08

Prepared: 11/30/23 Analyzed: 12/01/23

Benzene	5.00	0.0250	5.00	ND	100	54-133	3.34	20	
Ethylbenzene	4.94	0.0250	5.00	ND	98.8	61-133	2.46	20	
Toluene	4.97	0.0250	5.00	ND	99.5	61-130	3.19	20	
o-Xylene	4.93	0.0250	5.00	ND	98.7	63-131	2.67	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	2.79	20	
Total Xylenes	15.0	0.0250	15.0	ND	99.8	63-131	2.75	20	

Surrogate: 4-Bromochlorobenzene-PID

7.50 8.00 93.8 70-130

## QC Summary Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Dr.k South Tank Battery Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 12/6/2023 3:03:45PM
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## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2348091-BLK1)

Prepared: 11/30/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130		

## LCS (2348091-BS2)

Prepared: 11/30/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0	79.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00	96.5	70-130			

## Matrix Spike (2348091-MS2)

Source: E311234-08

Prepared: 11/30/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.3	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.3	70-130		

## Matrix Spike Dup (2348091-MSD2)

Source: E311234-08

Prepared: 11/30/23 Analyzed: 12/01/23

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.7	70-130	2.08	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130		

## QC Summary Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Dr.k South Tank Battery Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 12/6/2023 3:03:45PM
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## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2349027-BLK1)

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

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	48.0		50.0		96.0	50-200		

## LCS (2349027-BS1)

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

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132		
Surrogate: n-Nonane	44.6		50.0		89.3	50-200		

## Matrix Spike (2349027-MS1)

Source: E311232-03

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

Diesel Range Organics (C10-C28)	3270	250	250	2080	477	38-132		M4
Surrogate: n-Nonane	39.8		50.0		79.6	50-200		

## Matrix Spike Dup (2349027-MSD1)

Source: E311232-03

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

Diesel Range Organics (C10-C28)	2000	250	250	2080	NR	38-132	48.4	20	M4, R2
Surrogate: n-Nonane	38.7		50.0		77.3	50-200			

## QC Summary Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Dr.k South Tank Battery Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 12/6/2023 3:03:45PM
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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 (2349010-BLK1)

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

Chloride	ND	20.0
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## LCS (2349010-BS1)

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

Chloride	248	20.0	250	99.2	90-110
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## Matrix Spike (2349010-MS1)

Source: E311228-03

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

Chloride	7460	200	250	7840	NR	80-120		M4
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## Matrix Spike Dup (2349010-MSD1)

Source: E311228-03

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

Chloride	7500	200	250	7840	NR	80-120	0.479	20	M4
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## 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

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Dr.k South Tank Battery Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 12/06/23 15:03
---	--	--------------------------

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

R2 The RPD exceeded the acceptance limit.

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.

### Additional Instructions:

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.

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Received on ice: 6/12/04 Use Only 6/12/04

Avg Temp °C 4

any pleasure, ag - armur glass, v - VUA

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

in the report

Environmental Report 11

## Envirotech Analytical Laboratory

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: Talon LPE	Date Received: 11/30/23 07:30	Work Order ID: E311228
Phone: (575) 746-8768	Date Logged In: 11/30/23 08:03	Logged In By: Jordan Montano
Email: chensley@talonlpe.com	Due Date: 12/06/23 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 Carrier: Courier
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.

**Sample Turn Around Time (TAT)**

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

Action 521369

**QUESTIONS**

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521369
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2126643846
Incident Name	NAPP2126643846 DR. K SOUTH TANK BATTERY @ FAPP2203429889
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Facility	[fAPP2203429889] Dr. K South Facility Flare Stack

**Location of Release Source**

*Please answer all the questions in this group.*

Site Name	DR. K SOUTH TANK BATTERY
Date Release Discovered	09/22/2021
Surface Owner	Private

**Incident Details**

*Please answer all the questions in this group.*

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

**Nature and Volume of Release**

*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	<i>Not answered.</i>
Produced Water Released (bbls) Details	<i>Cause: Corrosion   Producing Well   Produced Water   Released: 16 BBL   Recovered: 0 BBL   Lost: 16 BBL.</i>
Is the concentration of chloride in the produced water >10,000 mg/l	<i>Yes</i>
Condensate Released (bbls) Details	<i>Not answered.</i>
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	<i>Not answered.</i>
Other Released Details	<i>Not answered.</i>
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	<i>Corrosion on T joint leading to Separator.</i>

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QUESTIONS, Page 2

Action 521369

**QUESTIONS (continued)**

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:  228937
	Action Number:  521369
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

*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.*

<b>Initial Response</b>	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
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	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 10/30/2025
--	--

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QUESTIONS, Page 3

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Action 521369

**QUESTIONS (continued)**

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:  228937
	Action Number:  521369
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**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 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (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	High
A 100-year floodplain	Between 1 and 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
<i>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.</i>	
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)	16000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2300
GRO+DRO (EPA SW-846 Method 8015M)	1300
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	09/17/2025
On what date will (or did) the final sampling or liner inspection occur	09/22/2025
On what date will (or was) the remediation complete(d)	09/22/2025
What is the estimated surface area (in square feet) that will be reclaimed	3000
What is the estimated volume (in cubic yards) that will be reclaimed	1000
What is the estimated surface area (in square feet) that will be remediated	3000
What is the estimated volume (in cubic yards) that will be remediated	1000

*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 521369

**QUESTIONS (continued)**

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:  228937
	Action Number:  521369
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Remediation Plan (continued)**

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

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

*(Select all answers below that apply.)*

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	<i>Not answered.</i>
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	<i>Not answered.</i>
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Orla TX
What is the name of the out-of-state facility	R360
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	<i>Not answered.</i>
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>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 hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 10/30/2025
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*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 5

Action 521369

**QUESTIONS (continued)**

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:  228937
	Action Number:  521369
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**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 521369

**QUESTIONS (continued)**

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:  228937
	Action Number:  521369
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	506766
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/22/2025
What was the (estimated) number of samples that were to be gathered	29
What was the sampling surface area in square feet	3000

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	3000
What was the total volume (cubic yards) remediated	1000
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	3000
What was the total volume (in cubic yards) reclaimed	1000
Summarize any additional remediation activities not included by answers (above)	N/A

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents 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: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 10/30/2025
--	--

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QUESTIONS, Page 7

Action 521369

**QUESTIONS (continued)**

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:  228937
	Action Number:  521369
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS****Reclamation Report**

*Only answer the questions in this group if all reclamation steps have been completed.*

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	3000
What was the total volume of replacement material (in cubic yards) for this site	1000
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	02/25/2025
Summarize any additional reclamation activities not included by answers (above)	The site will be reseeded once warmer weather returns and conditions are favorable for grass growth.

*The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 10/30/2025
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Action 521369

**QUESTIONS (continued)**

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:  228937
	Action Number:  521369
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

**Revegetation Report**

*Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.*

Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 521369

**CONDITIONS**

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 521369
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, the OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	1/13/2026
scott.rodgers	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	1/13/2026