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Closure Report

Antelope Ridge 24 SWD #001
Lea County, New Mexico
API ID # 30-025-26547
Incident # NOY1816657191

Prepared For:

Matador Resources
5347 N. 26th Street 2nd Floor.
Artesia, NM 88210

Prepared By:

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

June 16, 2023

**NMOCD**

506 W. Texas Ave
Artesia, NM 88210

Subject: **Closure Report**
 Antelope Ridge 24 SWD #001
 Lea County, New Mexico
 API ID # 30-025-26547
 Incident # NOY1816657191

To Whom It May Concern,

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

Site Information

The Antelope Ridge 24 SWD #001 is located approximately 32 miles southwest of Hobbs, New Mexico. The legal location for this release is Unit Letter K, Section 24, Township 23 South, and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.2883301 and -103.4258575. A Site Location Map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is comprised of Ratliff-Wink fine sandy loams with, 0 to 3 percent slopes. The referenced soil data is presented in [Appendix II](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of eolian and piedmont deposits
Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits.

Groundwater and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 1 mile from the site and is recorded at 270 feet below ground surface (bgs). Further research of the Bureau of Land Management Karst data indicates that this site is situated outside a potential Karst area. The FEMA data base locates the site in a minimal flood hazard zone.

Approximate Depth to Groundwater 270 feet bgs

- Yes No Within 300 feet of any continuously flowing watercourse or any other significant watercourse
- Yes No Within 200 feet of any lakebed, sinkhole or a playa lake
- Yes No Within 300 feet from an occupied permanent residence, school, hospital, institution or church
- Yes No Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
- Yes No Within 1000 feet of any freshwater well or spring
- Yes No Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- Yes No Within 300 feet of a wetland
- Yes No Within the area overlying a subsurface mine
- Yes No Within an unstable area
- Yes No Within a 100-year floodplain

With no depth to water source available that meets New Mexico Oil Conservation Division's (NMOCD) criteria within 1/2 mile of the site, the responsible party must therefore adhere to the cleanup criteria for this site of groundwater less than 50 feet bgs, Table I, NMOCD Rule 19.15.29 NMAC.

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

Incident Description

On June 15, 2018, piping on gun barrel failed and loss of power causing the secondary containment to fill until the fluids spilled over the front of the battery, running East and pooled in roadway and pasture. Approximately 1119 barrels (bbls) of produced water were released on the pad location and pasture with 937 (bbls) of fluids recovered. The initial C-141 was submitted to the NMOCD, can be reviewed under incident number NOY1816657191. The site location map is presented in [Appendix I](#).

Regulatory Response

On March 3, 2023, NMOCD rejected the closure report submitted by Matador for the following reasons: "Closure denied. In an email dated 9/11/2018, conditions of approval for closure are listed. Dated and geo-referenced photo documentation of site/release characterization and remedial activities are required in the subsequent report. The submitted report did not contain photo documentation."

On May 18, 2023, on the conclusion of meeting with NMOCD, 6 locations were listed to be sampled from the previous reclamation assessment map. BG-3, BHC3, and BHC1 were requested to be sample no less than 2' bgs.. Samples points SWC5, SWC6, and BHC4 were to be sampled no less than 3' bgs.

Site Assessment Activities

On May 22, 2023, upon client authorization, Talon mobilized personnel to the site to conduct an initial site assessment. The impacted area was photographed, soil samples were collected utilizing a hand auger, and the area was mapped. All soil samples were properly packaged in laboratory provided glassware, preserved on ice in the custody of Talon personnel, and transported to Cardinal Analytical Laboratory for analysis of Total Chlorides (SM4500Cl-B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B). Sample locations are shown on the attached Figure 1 in [Appendix I](#), and the results of the sampling event are presented below in Table 1.

Table 1
Site Assessment Analytical Data

Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
BG-3	5/22/2023	2'	ND	ND	ND	ND	ND	0	176
BHC3	5/22/2023	2'	ND	ND	ND	ND	ND	0	192
BHC1	5/22/2023	2'	ND	ND	ND	ND	ND	0	944
SWC5	5/22/2023	3'	ND	ND	ND	ND	ND	0	160
SWC6	5/22/2023	3'	ND	ND	ND	ND	ND	0	80
BHC4	5/22/2023	3'	ND	ND	ND	ND	ND	66	256

NOTES:

BGS Below ground surface
mg/kg milligrams per kilogram
ND Analyte Not Detected

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

Remediation Activities

On June 14, 2023, Talon Returned to location and removed impacted soils located at C1 (BHC-1). The samples were transported with the chain of custody to Cardinal Laboratories, for analysis of Total Chlorides (SM4500CI-B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B).

The soil sample results from the laboratory analytical are summarized below. Sample locations are illustrated on Figure 2 in [Appendix I](#) and complete laboratory analytical reports are presented in [Appendix V](#).

Table 2
Site Closure Analytical Data

Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg		100 mg/kg	600 mg/kg	
C-1 (BHC-1)	6/14/2023	4'	ND	ND	ND	ND	ND	96	
SW-1	6/14/2023	0-4'	ND	ND	ND	ND	ND	496	
SW-2	6/14/2023	0-4'	ND	ND	ND	ND	ND	576	
SW-3	6/14/2023	0-4'	ND	ND	ND	ND	ND	240	
SW-4	6/14/2023	0-4'	ND	ND	ND	ND	ND	128	

NOTES:

- BGS** Below ground surface
- mg/kg** Milligrams per kilogram
- C** Confirmation Sample
- SW** Sidewall Sample
- ND** Analyte Not Detected

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

Remedial Action Summary

- The impacted areas on location were excavated to depths of 4 feet bgs. Talon field titrated soil samples for total chlorides to guide the vertical and horizontal extents of the excavation process.
- Pursuant to NMOCD guidance, confirmation soil samples were collected at 200 square foot intervals and analyzed for TPH, BTEX and Total Chlorides to insure all areas had reached NMOCD closure criteria.
- The excavated areas on the well pad were backfilled with new caliche, machine compacted, and contoured to match the surrounding location.
- Photographic documentation is provided in [Appendix IV](#).
- Copies of the Final C-141s are presented in [Appendix III](#).

Closure

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

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

Respectfully submitted,

Talon/LPE

Chad Hensley
Project Manager

David J. Adkins
Regional Manager

Attachments:

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



Appendix I

Site Maps



Site and Sample Location Map
 ANTELOPE RIDGE 24 SWD #001 - Matador Resources
 S: 24 T23S R34E, Lea County New Mexico

Figure 1

Document: C:\Users\lomi\Documents\GIS DATA\MAPS\ANTELOPE RIDGE 24 - Figure 3.mxd

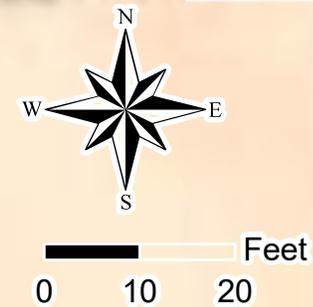
Date Saved: 10/15/2018
 By: _____ Date: _____
 By: _____ Date: _____
 Copyright 2015 Souder, Miller & Associates - All Rights Reserved

Revisions
 Descr: _____
 Descr: _____

Drawn Lucas Middleton
 Checked _____
 Approved _____



201 South Halaguena Street
 Carlsbad, New Mexico 88221
 (575) 689-7040
 www.soudermiller.com
 Serving the Southwest & Rocky Mountains



Legend

- Confirmation Sample
- Sample Location
- Excavation

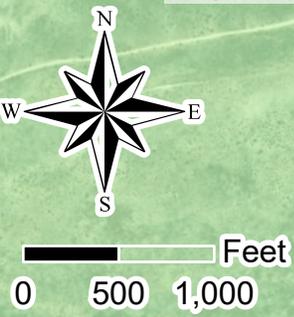


Maxar, Microsoft



Drafted: 6/20/2023
 1 in = 20 ft
 Drafted By: JAI

Matador Resources
 Antelope Ridge 24 SWS #001
 Lea County, New Mexico
 Figure 2



Legend

- High
- Medium
- Low

Site Location

Maxar



Drafted: 6/20/2023
 1 in = 1,000 ft
 Drafted By: JAI

Matador Resources
 Antelope Ridge 24 SWS #001
 Lea County, New Mexico
 Karst Map



Drafted: 6/20/2023
 1 in = 1,000 ft
 Drafted By: JAI

Matador Resources
 Antelope Ridge 24 SWS #001
 Lea County, New Mexico
 Topographic Map



Appendix II

Groundwater Data

Soil Survey

FEMA Flood Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec 18	Tws 23S	Rng 35E	X	Y	DepthWell	DepthWater	Water Column
CP 01830 POD1		CP	LE	3	3	3	18	23S	35E	649289	3574568	460	270	190

Average Depth to Water: **270 feet**

Minimum Depth: **270 feet**

Maximum Depth: **270 feet**

Record Count: 1

PLSS Search:

Section(s): 18

Township: 23S

Range: 35E

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.

6/19/23 11:41 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico



June 16, 2023

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Soil Map may not be valid at this scale.

Map Scale: 1:5,890 if printed on A landscape (11" x 8.5") sheet.

0 50 100 200 300 Meters

0 250 500 1000 1500 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

Custom Soil Resource Report

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: Lea County, New Mexico
 Survey Area Data: Version 19, Sep 8, 2022

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

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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.

Custom Soil Resource Report

Lea County, New Mexico

MN—Ratliff-Wink fine sandy loams

Map Unit Setting

National map unit symbol: dmqf
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Ratliff and similar soils: 45 percent
Wink and similar soils: 40 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ratliff

Setting

Landform: Plains
Landform position (three-dimensional): Dip
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Calcareous alluvium and/or calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 4 inches: fine sandy loam
Bw - 4 to 22 inches: clay loam
Bk - 22 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6c
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Custom Soil Resource Report

Description of Wink**Setting**

Landform: Plains

Landform position (three-dimensional): Dip

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Calcareous sandy alluvium and/or calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 12 inches: fine sandy loam

Bk - 12 to 23 inches: sandy loam

Bc - 23 to 60 inches: sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Minor Components**Kermit**

Percent of map unit: 6 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Maljamar

Percent of map unit: 5 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Palomas

Percent of map unit: 4 percent

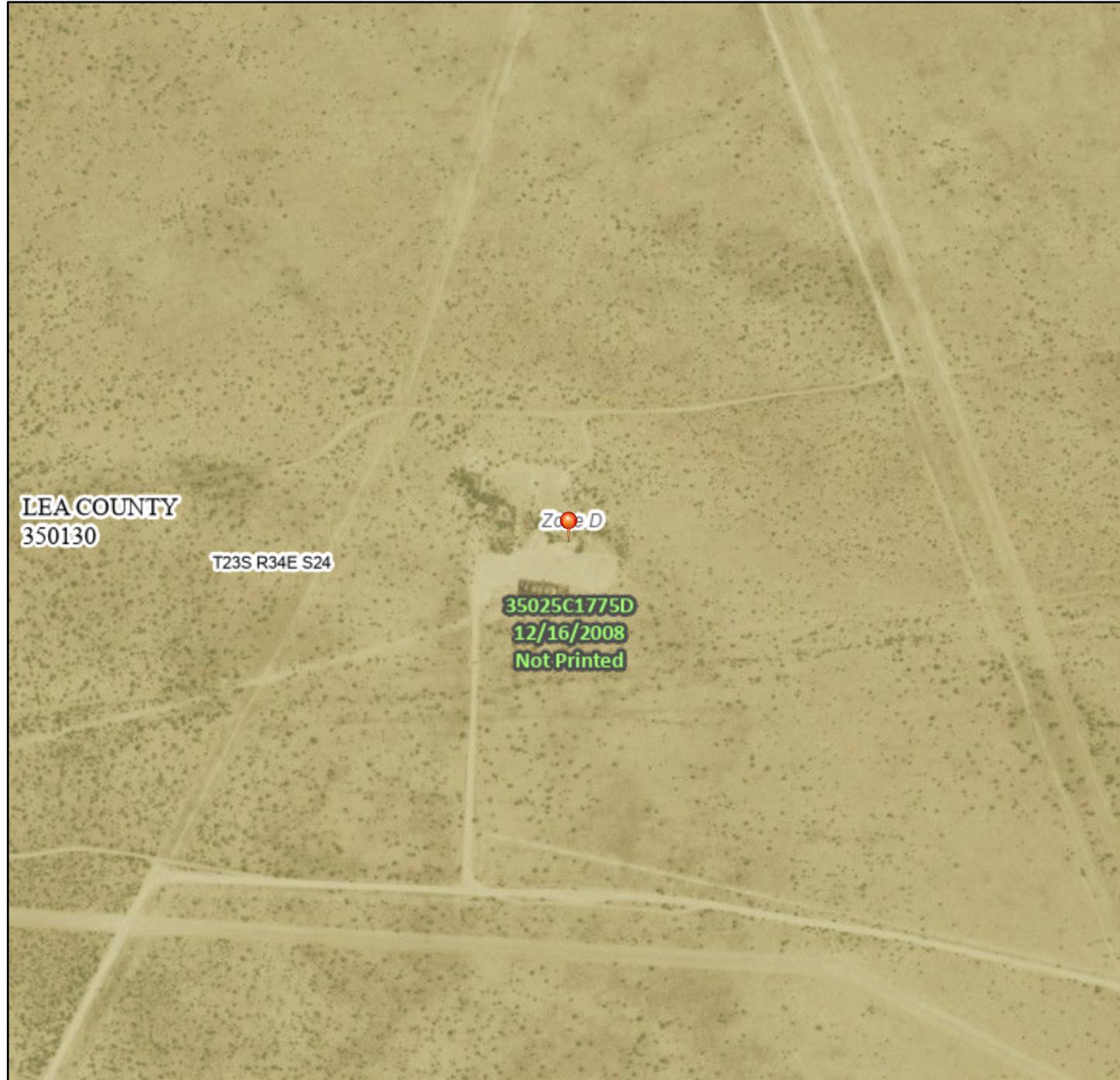
Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

National Flood Hazard Layer FIRMMette



103°25'52"W 32°17'33"N



Legend

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

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



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **6/16/2023 at 2:18 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 6/29/2023 10:37:51 AM

1:6,000

103°25'14"W 32°17'3"N



Appendix III

C-141 Forms

NMOCD Correspondence

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

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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

IRP-5099

OPERATOR Initial Report Final Report

Name of Company Matador Resources Company	Contact John Hurt
Address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240	Telephone No. 972-371-5200
Facility Name ANTELOPE RIDGE 24 SWD #001	Facility Type Salt Water Disposal

Surface Owner State of New Mexico	Mineral Owner State of New Mexico	API No. 30-025-26547
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	24	23S	34E	1980	South	1980	West	Lea

Latitude 32.288089° Longitude -103.426398° NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 1,119 bbl	Volume Recovered 937 bbl
Source of Release Equipment Failure	Date and Hour of Occurrence 6/7/18 ~6:00 p.m.	Date and Hour of Discovery 6/7/18 ~8:00p.m..
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu	
By Whom? Lucas Middleton(SMA)	Date and Hour 6/8/18 3:08 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Piping on Gun barrel failed and lost of power causing the secondary containment to fill until the fluids spilled over the front of the battery running east and pooled in roadway and pasture. The location was shut down and a vacuum truck was on site vacuuming all standing fluids

Describe Area Affected and Cleanup Action Taken.*
The release occurred within the secondary containment and on the pad, road and pasture (~544 square yards). SMA will delineate and submit a work plan for approval of remediation actions.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC 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.

Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: John Hurt	Approved by Environmental Specialist:	
Title: RES Specialist	Approval Date:	Expiration Date:
E-mail Address: Jhurt@matadorresources.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	Phone: 972-371-5200	

* Attach Additional Sheets If Necessary

Incident ID	NOY1816657191
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Clinton Talley Title: Environmental, Health & Safety Supervisor

Signature: *Clinton Talley* Date: 6/27/2023

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

OCD Only

Received by: OCD Date: 06/27/2023

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

Closure Approved by: *Ashley Maxwell* Date: 06/29/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist



Appendix IV

Photographic Documentation



Photograph No.1 Description:

BHC4 Sample Point @ 3'



Photograph No.2 Description:

SWC5 Sample Point @ 3'



Photograph No.3 Description:

SWC6 Sample Point @ 3'



Photograph No.4 Description:

BHC3 Sample Point @ 2'



Photograph No.5 Description:

BHC1 Sample Point @ 2'



Photograph No.6 Description:

BHC1 Excavation to remove contaminated soils.



Appendix V

Laboratory Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 30, 2023

DAVID ADKINS
TALON LPE
408 W. TEXAS AVE.
ARTESIA, NM 88210

RE: ANTELOPE RIDGE 24 SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 05/24/23 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/24/2023	Sampling Date:	05/22/2023
Reported:	05/30/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 24 SWD #001	Sampling Condition:	Cool & Intact
Project Number:	702520.057.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA CO NM		

Sample ID: BG 3 2' (H232646-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/25/2023	ND	2.14	107	2.00	1.00		
Toluene*	<0.050	0.050	05/25/2023	ND	2.15	108	2.00	0.529		
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.23	112	2.00	0.448		
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.56	109	6.00	0.342		
Total BTEX	<0.300	0.300	05/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/25/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	190	95.2	200	4.36		
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	199	99.4	200	4.39		
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND						

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/24/2023	Sampling Date:	05/22/2023
Reported:	05/30/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 24 SWD #001	Sampling Condition:	Cool & Intact
Project Number:	702520.057.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA CO NM		

Sample ID: BHC 3 2' (H232646-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.14	107	2.00	1.00	
Toluene*	<0.050	0.050	05/25/2023	ND	2.15	108	2.00	0.529	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.23	112	2.00	0.448	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.56	109	6.00	0.342	
Total BTEX	<0.300	0.300	05/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/25/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	190	95.2	200	4.36	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	199	99.4	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/24/2023	Sampling Date:	05/22/2023
Reported:	05/30/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 24 SWD #001	Sampling Condition:	Cool & Intact
Project Number:	702520.057.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA CO NM		

Sample ID: BHC 1 2' (H232646-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/25/2023	ND	2.14	107	2.00	1.00		
Toluene*	<0.050	0.050	05/25/2023	ND	2.15	108	2.00	0.529		
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.23	112	2.00	0.448		
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.56	109	6.00	0.342		
Total BTEX	<0.300	0.300	05/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	05/25/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	190	95.2	200	4.36		
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	199	99.4	200	4.39		
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND						

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/24/2023	Sampling Date:	05/22/2023
Reported:	05/30/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 24 SWD #001	Sampling Condition:	Cool & Intact
Project Number:	702520.057.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA CO NM		

Sample ID: SWC 5 3' (H232646-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.14	107	2.00	1.00	
Toluene*	<0.050	0.050	05/25/2023	ND	2.15	108	2.00	0.529	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.23	112	2.00	0.448	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.56	109	6.00	0.342	
Total BTEX	<0.300	0.300	05/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/25/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	190	95.2	200	4.36	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	199	99.4	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/24/2023	Sampling Date:	05/22/2023
Reported:	05/30/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 24 SWD #001	Sampling Condition:	Cool & Intact
Project Number:	702520.057.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA CO NM		

Sample ID: SWC 6 3' (H232646-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.14	107	2.00	1.00	
Toluene*	<0.050	0.050	05/25/2023	ND	2.15	108	2.00	0.529	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.23	112	2.00	0.448	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.56	109	6.00	0.342	
Total BTEX	<0.300	0.300	05/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/25/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	190	95.2	200	4.36	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	199	99.4	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	05/24/2023	Sampling Date:	05/22/2023
Reported:	05/30/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 24 SWD #001	Sampling Condition:	Cool & Intact
Project Number:	702520.057.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA CO NM		

Sample ID: BHC 4 3' (H232646-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.14	107	2.00	1.00	
Toluene*	<0.050	0.050	05/25/2023	ND	2.15	108	2.00	0.529	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.23	112	2.00	0.448	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.56	109	6.00	0.342	
Total BTEX	<0.300	0.300	05/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/25/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	190	95.2	200	4.36	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	199	99.4	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: Talon LPE **BILL TO** ANALYSIS REQUEST

Project Manager: P.O. #:

Address: 408 W. Texas Ave Company:

City: Artesia State: NM Zip: 88210 Attn:

Phone #: 575.746.8768 Fax #: Address:

Project #: 702520.057.01 Project Owner: Matador City:

Project Name: Antelope Ridge 24 SWD #001 State: Zip:

Project Location: Lea County Phone #:

Sampler Name: N.Rose Fax #:

FOR LAB USE ONLY MATRIX PRESERV SAMPLING

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CL	BTEX	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H232644	BG3 2'	G		<input checked="" type="checkbox"/>						05/22/	0915	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	BHC3 2'	G		<input checked="" type="checkbox"/>							0945	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	BHC1 2'	G		<input checked="" type="checkbox"/>							1020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SWC5 3'	G		<input checked="" type="checkbox"/>							1055	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SWC6 3'	G		<input checked="" type="checkbox"/>							1114	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	BHC4 3'	G		<input checked="" type="checkbox"/>							1252	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

RELEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 5-24-23 Received By: *[Signature]*

Relinquished By: *[Signature]* Date: 5-24-23 Time: 1:33:35 Received By: *[Signature]*

Delivered By: (Circle One) #113 Sample Condition: Intact Cool Yes No

Sampler - UPS - Bus - Other: 1.4e / 0.8e CHECKED BY: *[Signature]* (Initials) *[Signature]*

REMARKS: Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #: **4** Cardinal cannot warrant analytical accuracy. Please fax written changes to (575) 393-2326



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 15, 2023

CHAD HENSLEY
TALON LPE
408 W. TEXAS AVE.
ARTESIA, NM 88210

RE: ANTELOPE RIDGE 24 SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 06/14/23 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 CHAD HENSLEY
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/14/2023	Sampling Date:	06/13/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 24 SWD #001	Sampling Condition:	Cool & Intact
Project Number:	702520.057.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA CO NM		

Sample ID: SW - 1 2.5' (H233054-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/15/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	200	100	200	5.53	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	206	103	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TALON LPE
 CHAD HENSLEY
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/14/2023	Sampling Date:	06/13/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 24 SWD #001	Sampling Condition:	Cool & Intact
Project Number:	702520.057.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA CO NM		

Sample ID: SW - 2 2.5' (H233054-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/15/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	06/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	200	100	200	5.53	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	206	103	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHAD HENSLEY
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/14/2023	Sampling Date:	06/13/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 24 SWD #001	Sampling Condition:	Cool & Intact
Project Number:	702520.057.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA CO NM		

Sample ID: SW - 3 2.5' (H233054-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/15/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	200	100	200	5.53	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	206	103	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHAD HENSLEY
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/14/2023	Sampling Date:	06/13/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 24 SWD #001	Sampling Condition:	Cool & Intact
Project Number:	702520.057.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA CO NM		

Sample ID: SW - 4 2.5' (H233054-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/15/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	200	100	200	5.53	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	206	103	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 CHAD HENSLEY
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/14/2023	Sampling Date:	06/13/2023
Reported:	06/15/2023	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE 24 SWD #001	Sampling Condition:	Cool & Intact
Project Number:	702520.057.01	Sample Received By:	Shalyn Rodriguez
Project Location:	MATADOR - LEA CO NM		

Sample ID: C - 1 4' (H233054-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2023	ND	1.55	77.7	2.00	23.8	
Toluene*	<0.050	0.050	06/15/2023	ND	1.83	91.6	2.00	5.54	
Ethylbenzene*	<0.050	0.050	06/15/2023	ND	1.95	97.4	2.00	1.48	
Total Xylenes*	<0.150	0.150	06/15/2023	ND	5.87	97.8	6.00	3.26	
Total BTEX	<0.300	0.300	06/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2023	ND	200	100	200	5.53	
DRO >C10-C28*	<10.0	10.0	06/15/2023	ND	206	103	200	5.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: Talon LPE

Project Manager: C. Hensley

Address: 408 W. Texas Ave

City: Artesia

Phone #: 575.746.8768

Project #: 702520.057.01

Project Name: Antelope Ridge

Project Location: Eddy county

Sampler Name: N. Rose

BILL TO

P.O. #: Company: Matador

Attn:

Address:

City:

State:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H233054

1 SW-1 2.5'
 2 SW-2
 3 SW-3
 4 SW-4
 5 C-1 4'

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	CL	BTEX	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
			1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6/13/23	1301	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
			1	<input checked="" type="checkbox"/>	<input type="checkbox"/>		1336	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
			1	<input checked="" type="checkbox"/>	<input type="checkbox"/>		1355	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
			1	<input checked="" type="checkbox"/>	<input type="checkbox"/>		1752	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
			1	<input checked="" type="checkbox"/>	<input type="checkbox"/>		1717	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							

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Relinquished By: [Signature]
 Date: 6-14-23
 Received By: [Signature]
 Date: 6-13-23

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS: 24 hour Rush

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: #13
 Sample Condition: Cool Intact
 Checked By: [Signature]
 -0.88 / -1.42

* Cardinal cannot accept verbal change. Please fax written change to FAX 393-2476

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

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

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

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 233206

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 233206
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	6/29/2023