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## Closure Report

Government D #006  
Eddy County, New Mexico  
API ID # 30-015-25315  
**Incident #** NMCS0318225470

### Prepared For:

Matador Resources  
5347 N. 26<sup>th</sup> Street 2<sup>nd</sup> Floor.  
Artesia, NM 88210

### Prepared By:

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

**September 28, 2023**

**NMOCD**

506 W. Texas Ave  
Artesia, NM 88210

**BLM**

620 E. Greene St.  
Carlsbad, NM 88220

Subject: **Closure Report**  
Government D #006  
Eddy County, New Mexico  
API # 30-015-25315  
Incident # NMCS0318225470

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, and the closure request are presented herein.

### **Site Information**

The Government D #006 is located approximately 7 miles northeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter H, Section 12, Township 21 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.4967346 and -104.1366196. A Site Location Map Figure 2 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 Gypsum land-Reeves complex, 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 Piedmont alluvial deposits Holocene to lower Pleistocene in age.

### **Groundwater and Site Characterization**

Based on the New Mexico Office of the State Engineer Database, the nearest reported groundwater depth is 39 feet below ground surface (bgs) but is located greater than 0.5 miles from the subject site. The FEMA Flood Service Center does not locate the site in a 100-year flood plain. Further research of the Bureau of Land Management Karst data indicates that this site is situated within a high potential Karst area. See [Appendix II](#) for the site characterization data.

<b>Approximate Depth to Groundwater</b>	<b>39 feet bgs</b>
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- ☐ 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 ½ mile of the site, the responsible party must therefore adhere to the cleanup criteria for this site of groundwater less than 50 feet bgs, Table I, NMOCD Rule 19.15.29 NMAC.

Table I 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

Matador personnel noted a historical spill had been reported on June 23, 2003, that needed to be addressed. The C-141 submitted to the NMOCD, incident number NMCS0318225470, stated a hole was noted a hole in a fused part of the flowline, resulting in the release of unknown amount of crude oil. The site map is presented in [Appendix I](#).

## Site Assessment

On June 28th, 2023, Talon personnel mobilized to the site to conduct an initial site assessment of the site east of the wellhead. The impacted area was photographed, sampled utilizing a hand auger, and mapped. All soil samples were properly packaged, preserved, and transported to Cardinal laboratories with the chain of custody for analysis of Total Chlorides (Method SM4500Cl-B), TPH (EPA Method 8015M), and volatile organics (BTEX, EPA Method 8021B). Sample locations are shown on the attached Figure 1 ([Appendix I](#)) and the results of our sampling event are presented on the following data table.

**Table 1**  
Initial Site Assessment

Government D #6									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	6/28/23	1' R	ND	ND	ND	65.4	37.8	103.2	64.0
S-2	6/28/23	1' R	ND	ND	ND	66.2	53.6	119.8	32.0
S-3	6/28/23	1' R	ND	ND	ND	123	70.7	193.7	32.0
BG-1	6/28/23	1'	ND	ND	ND	ND	ND	0	48.0

### NOTES:

**BGS** Below ground surface  
**mg/kg** Milligrams per kilogram  
**TPH** Total Petroleum Hydrocarbons  
**GRO** Gasoline range organics  
**DRO** Diesel range organics  
**MRO** Motor oil range organics  
**S** Sample  
**R** Refusal  
**ND** Analyte Not Detected

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria



## Remediation Activities

On September 1, 2023, Talon personnel returned to location to remove impacted soils located around suspected historical release area in pasture. A Hydrovac was used to excavate 3.5 feet bgs. of contaminated soils and confirmation samples were collected. The samples were transported with the chain of custody to Envirotech Laboratories, for analysis of Total Chlorides (EPA 300), Total Petroleum Hydrocarbons (TPH, EPA Method 8015D) and Volatile Organics (BTEX, EPA Method 8021B).

The soil sample results from the laboratory analytical are summarized in the data table below. Sample locations are illustrated on Figure 5 in [Appendix I](#) and complete laboratory analytical reports are presented in [Appendix V](#).

**Table 2**  
Confirmation Samples

Government D # 006									
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
<b>NMOCD Table 1 Closure Criteria 19.15.29 NMAC</b>			<b>10 mg/kg</b>	<b>50 mg/kg</b>	<b>DRO + GRO + MRO combined = 100 mg/kg</b>			<b>100 mg/kg</b>	<b>600 mg/kg</b>
<b>C-1</b>	9/1/23	3.5'	ND	ND	ND	ND	ND	0	184
<b>SW-1</b>	9/1/23	0-3.5'	ND	ND	ND	ND	ND	0	204
<b>SW-2</b>	9/1/23	0-3.5'	ND	ND	ND	ND	ND	0	194

**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**

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### Remedial Action Summary

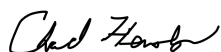
- The impacted areas on location were excavated to depth of 3.5 feet bgs. Talon personnel utilized a PID and field titrated soil samples for total chlorides to guide the vertical and horizontal extents of the excavation process.
- Pursuant to NMOCD guidance, confirmation soil samples were collected at 200 square foot intervals and analyzed for TPH, BTEX and Total Chlorides to insure all areas had reached NMOCD closure criteria.
- The excavated areas were backfilled with new like material (caliche), machine compacted, and contoured to match the surrounding location.
- Copies of the Final C-141s are presented in [Appendix III](#).
- Photographic documentation is provided in [Appendix IV](#).

### Closure

On behalf of Matador Resources, we respectfully request that no further actions be required and that closure of this incident be granted.

Respectfully submitted,

Talon/LPE



Chad Hensley  
Project Manager

#### Attachments:

Appendix I Site Maps  
Appendix II Groundwater Data, Soil Survey, FEMA Flood Map  
Appendix III C-141 Form  
Appendix IV Photographic Documentation  
Appendix V Laboratory Report



## Appendix I

### Site Maps





Image Source: Maxar, Microsoft



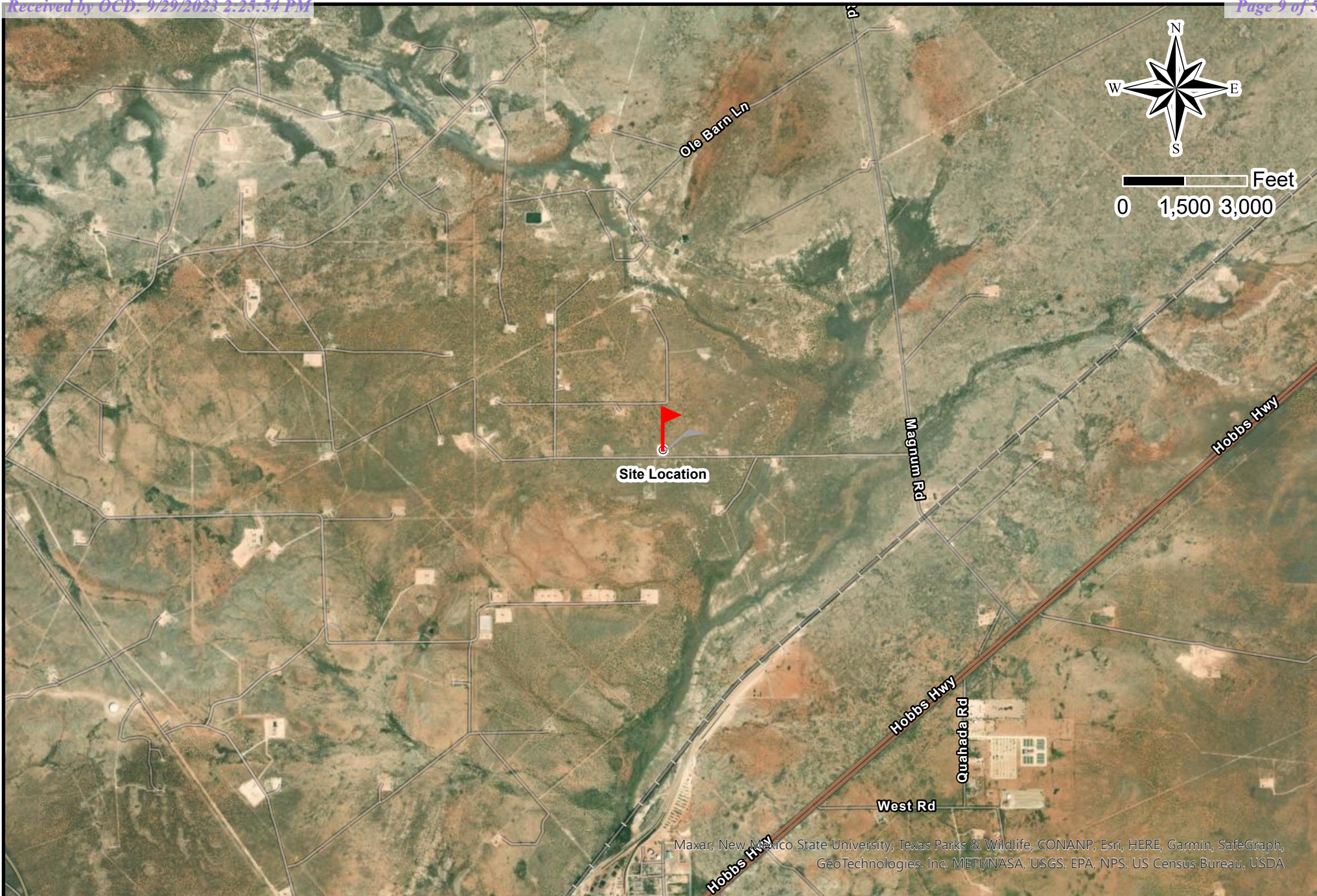
Drafted: 9/20/2023

1 in = 20 ft

Drafted By: IJR

Matador Resources Company  
Government D #006  
Eddy County, NM  
Figure 1 - Site Assessment Map

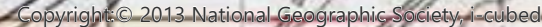




Drafted: 9/20/2023  
1 in = 3,000 ft  
Drafted By: IJR

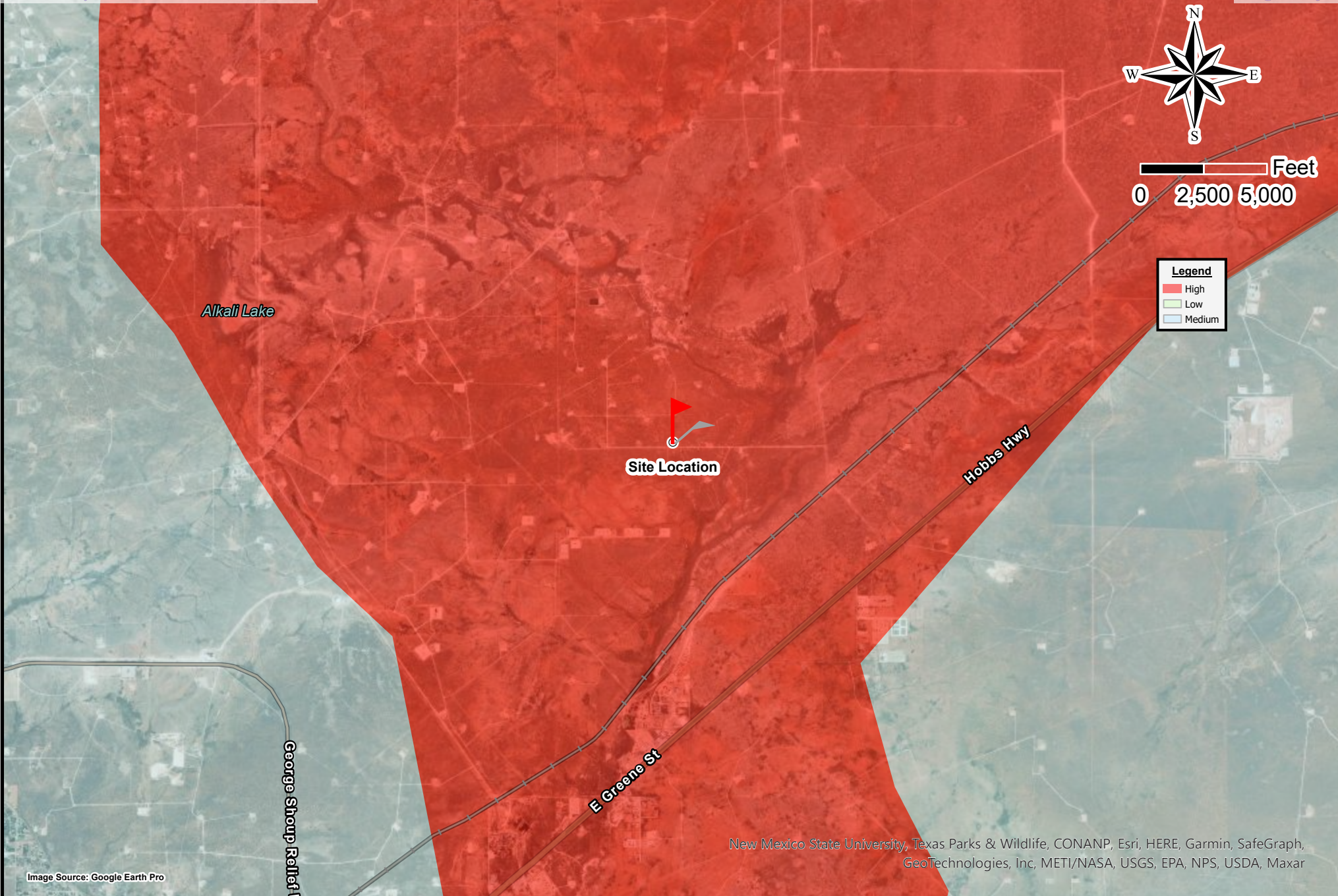
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Figure 2 - Site Location Map





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Eddy County, NM  
Figure 3 - Topographic Map





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1 in = 5,000 ft  
Drafted By: IJR

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Figure 4 - Karst Map





Image Source: Maxar, Microsoft



Drafted: 9/20/2023

1 in = 20 ft

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Eddy County, NM

Figure 5 - Excavation 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	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C 03268 POD1</a>		CUB	ED	4	2	4	01	21S	27E	581201	3596915	1093	48	13	35
<a href="#">C 02992</a>		C	ED	3	3	2	01	21S	27E	580594	3597311*	1572	250	186	64
<a href="#">C 03350</a>		C	ED	1	4	2	01	21S	27E	580896	3597476	1664	76	8	68
<a href="#">C 03272 POD1</a>		CUB	ED	4	3	1	18	21S	28E	581632	3594114*	1789	22	9	13
<a href="#">C 03689 POD1</a>		C	ED	1	1	2	01	21S	27E	580490	3598014	2275	95	10	85
<a href="#">C 00469</a>	C	CUB	ED		1	4	02	21S	27E	579078	3596994*	2343	767		
<a href="#">C 03864 POD1</a>		CUB	ED	2	4	4	13	21S	27E	581218	3593472	2355	160	45	115
<a href="#">C 00473</a>	C	CUB	ED		3	2	14	21S	27E	579087	3594177*	2609	562		
<a href="#">C 03607 POD1</a>		CUB	ED	2	2	2	24	21S	27E	581145	3593139	2686	275	10	265
<a href="#">C 03525 POD3</a>		CUB	ED	1	1	1	01	21S	27E	579728	3598332	2862	30		
<a href="#">C 00465</a>	C	CUB	ED	3	2	1	14	21S	27E	578576	3594475*	2870			
<a href="#">C 03525 POD4</a>		CUB	ED	1	1	1	01	21S	27E	579728	3598362	2889	29		
<a href="#">C 03525 POD1</a>		CUB	ED	1	1	1	01	21S	27E	579702	3598362	2901	31	20	11
<a href="#">CP 00627 POD2</a>		CP	ED	1	2	3	17	21S	28E	583360	3593982	2908	175		
<a href="#">C 03525 POD2</a>		CUB	ED	2	2	2	02	21S	27E	579676	3598362	2914	29	20	9
<a href="#">CP 01861 POD1</a>		CP	ED	4	1	4	08	21S	28E	584023	3595285	2963	160	70	90

Average Depth to Water: **39 feet**

Minimum Depth: **8 feet**

Custom Soil Resource Report  
Soil Map






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: Eddy Area, New Mexico  
Survey Area Data: Version 18, 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: 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.

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## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
GR	Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded	64.5	40.5%
PA	Pajarito loamy fine sand, 0 to 3 percent slopes, eroded	15.9	10.0%
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	78.9	49.5%
<b>Totals for Area of Interest</b>		<b>159.3</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

## Custom Soil Resource Report

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

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**Eddy Area, New Mexico****GR—Gypsum land-Reeves complex, 0 to 3 percent slopes, eroded****Map Unit Setting**

*National map unit symbol:* 1w4h  
*Elevation:* 3,000 to 5,000 feet  
*Mean annual precipitation:* 10 to 14 inches  
*Mean annual air temperature:* 60 to 64 degrees F  
*Frost-free period:* 190 to 220 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Gypsum land:* 55 percent  
*Reeves and similar soils:* 35 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Gypsum Land****Setting**

*Landform:* Ridges, plains, hills  
*Landform position (two-dimensional):* Shoulder, backslope, footslope, toeslope  
*Landform position (three-dimensional):* Side slope, head slope, nose slope, crest  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from gypsum

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8s  
*Hydric soil rating:* No

**Description of Reeves****Setting**

*Landform:* Ridges, plains, hills  
*Landform position (two-dimensional):* Shoulder, backslope, footslope, toeslope  
*Landform position (three-dimensional):* Side slope, head slope, nose slope, crest  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from gypsum

**Typical profile**

*H1 - 0 to 8 inches:* sandy loam  
*H2 - 8 to 32 inches:* clay loam  
*H3 - 32 to 60 inches:* gypsiferous material

**Properties and qualities**

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches

## Custom Soil Resource Report

*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 25 percent  
*Gypsum, maximum content:* 80 percent  
*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 4.0  
*Available water supply, 0 to 60 inches:* Low (about 4.3 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 3s  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* B  
*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

**Minor Components****Unnamed soils**

*Percent of map unit:* 10 percent  
*Hydric soil rating:* No

**PA—Pajarito loamy fine sand, 0 to 3 percent slopes, eroded****Map Unit Setting**

*National map unit symbol:* 1w54  
*Elevation:* 2,700 to 5,500 feet  
*Mean annual precipitation:* 5 to 15 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 180 to 250 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Pajarito and similar soils:* 98 percent  
*Minor components:* 2 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Pajarito****Setting**

*Landform:* Plains, interdunes, dunes  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear, convex  
*Parent material:* Mixed alluvium and/or eolian sands

**Typical profile**

*H1 - 0 to 13 inches:* loamy fine sand  
*H2 - 13 to 36 inches:* fine sandy loam  
*H3 - 36 to 60 inches:* fine sandy loam



## Custom Soil Resource Report

**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:* 15 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Moderate (about 7.9 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* A  
*Ecological site:* R070BD003NM - Loamy Sand  
*Hydric soil rating:* No

**Minor Components****Berino**

*Percent of map unit:* 1 percent  
*Ecological site:* R070BD003NM - Loamy Sand  
*Hydric soil rating:* No

**Wink**

*Percent of map unit:* 1 percent  
*Ecological site:* R070BD003NM - Loamy Sand  
*Hydric soil rating:* No

**RG—Reeves-Gypsum land complex, 0 to 3 percent slopes****Map Unit Setting**

*National map unit symbol:* 1w5f  
*Elevation:* 1,250 to 5,000 feet  
*Mean annual precipitation:* 10 to 25 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 190 to 235 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Reeves and similar soils:* 55 percent  
*Gypsum land:* 30 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

## Custom Soil Resource Report

**Description of Reeves****Setting***Landform:* Ridges, plains, hills*Landform position (two-dimensional):* Shoulder, backslope, footslope, toeslope*Landform position (three-dimensional):* Side slope, head slope, nose slope, crest*Down-slope shape:* Convex*Across-slope shape:* Linear*Parent material:* Residuum weathered from gypsum**Typical profile***H1 - 0 to 8 inches:* loam*H2 - 8 to 32 inches:* clay loam*H3 - 32 to 60 inches:* gypsiferous material**Properties and qualities***Slope:* 0 to 1 percent*Depth to restrictive feature:* More than 80 inches*Drainage class:* Well drained*Runoff class:* High*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)*Depth to water table:* More than 80 inches*Frequency of flooding:* None*Frequency of ponding:* None*Calcium carbonate, maximum content:* 25 percent*Gypsum, maximum content:* 80 percent*Maximum salinity:* Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)*Sodium adsorption ratio, maximum:* 4.0*Available water supply, 0 to 60 inches:* Low (about 4.3 inches)**Interpretive groups***Land capability classification (irrigated):* 3s*Land capability classification (nonirrigated):* 7s*Hydrologic Soil Group:* B*Ecological site:* R070BC007NM - Loamy*Hydric soil rating:* No**Description of Gypsum Land****Setting***Landform:* Ridges, plains, hills*Landform position (two-dimensional):* Shoulder, backslope, footslope, toeslope*Landform position (three-dimensional):* Side slope, head slope, nose slope, crest*Down-slope shape:* Convex*Across-slope shape:* Linear*Parent material:* Residuum weathered from gypsum**Interpretive groups***Land capability classification (irrigated):* None specified*Land capability classification (nonirrigated):* 8s*Hydric soil rating:* No**Minor Components****Largo***Percent of map unit:* 5 percent

Custom Soil Resource Report

*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

**Reagan**

*Percent of map unit:* 5 percent  
*Ecological site:* R070BC007NM - Loamy  
*Hydric soil rating:* No

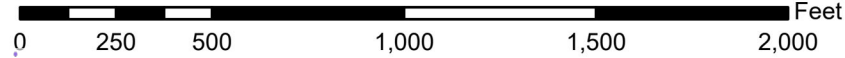
**Cottonwood**

*Percent of map unit:* 5 percent  
*Ecological site:* R070BC033NM - Salty Bottomland  
*Hydric soil rating:* No

# National Flood Hazard Layer FIRMMette



104°8'31"W 32°30'3"N



1:6,000

104°7'53"W 32°29'33"N

Basemap Imagery Source: USGS National Map 2023

### 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 B</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 X</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
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
	MAP PANELS	
		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 **9/19/2023 at 2:32 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: 11/1/2023 11:20:45 AM

Received by OCD: 9/19/2023 2:25:54 PM

Page 24 of 57



## **Appendix III**

C-141 Forms

NMOCD Correspondence

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NMCS0318225470
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Matador Resources	OGRID	228937
Contact Name	Clinton Talley	Contact Telephone	337-319-8398
Contact email	clinton.talley@matadorresources.com	Incident # (assigned by OCD)	NMCS0318225470
Contact mailing address	5347 N. 26th Street 2nd Floor, Artesia, NM 88210		

### Location of Release Source

Latitude 32.4967346 Longitude -104.1366196  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	GOVERNMENT D #006	Site Type	Oil Release
Date Release Discovered	API# (if applicable) 30-015-25315		

Unit Letter	Section	Township	Range	County
H	12	21s	27e	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

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

Cause of Release

Pumper reported leak at fuse of 2" polyline. Placed clamp on flowline.




State of New Mexico  
Oil Conservation Division

Incident ID	NMCS0318225470
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Clinton Talley</u>	Title: <u>EHS</u>
Signature: <u></u>	Date: <u>9/28/2023</u>
email: <u>clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

Incident ID	NMCS0318225470
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>39</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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



Incident ID	NMCS0318225470
District RP	
Facility ID	
Application ID	

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

Printed Name: Clinton Talley Title: EHS  
Signature: *Clinton Talley* Date: 9/28/2023  
email: clinton.talley@matadorresources.com Telephone: 337-319-8398

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NMCS0318225470
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Clinton Talley Title: EHS  
Signature: *Clinton Talley* Date: 9/28/2023  
email: clinton.talley@matadorresources.com Telephone: 337-319-8398

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: *Ashley Maxwell* Date: 11/01/2023  
Printed Name: Ashley Maxwell Title: Environmental Specialist

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Chad Hensley](#)  
**Cc:** [Bratcher, Michael, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)  
**Subject:** RE: [EXTERNAL] RE: Confirmation Sampling Event  
**Date:** Wednesday, August 9, 2023 4:30:46 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)

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

Hi Chad,

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

Thank you,

Shelly

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

**From:** Chad Hensley <[chensley@talonlpe.com](mailto:chensley@talonlpe.com)>  
**Sent:** Wednesday, August 9, 2023 3:36 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Nathaniel Rose <[nrose@talonlpe.com](mailto:nrose@talonlpe.com)>  
**Subject:** [EXTERNAL] RE: Confirmation Sampling Event

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

To whom it may concern,

Talon on behalf of Matador is conducting a sampling event for:  
Government D  
NMCS0318225470  
8/14/2023 at 9am

**Chad Hensley**  
**Environmental Project Manager**  
Office: 575.746.8768 x708  
Direct: 575.616.4023  
Cell: 575.246.0032

Fax: 575.746.8905  
Emergency: 866.742.0742  
Web: [www.talonlpe.com](http://www.talonlpe.com)



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

---

**From:** Chad Hensley  
**Sent:** Wednesday, August 9, 2023 3:24 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Nathaniel Rose <[nrose@talonlpe.com](mailto:nrose@talonlpe.com)>  
**Subject:** Confirmation Sampling Event

To whom it may concern,

Talon on behalf of Matador is conducting a sampling event for:  
Merchant D  
NMCS0318225470  
8/14/2023 at 9am

**Chad Hensley**  
**Environmental Project Manager**  
Office: 575.746.8768 x708  
Direct: 575.616.4023  
Cell: 575.246.0032  
Fax: 575.746.8905  
Emergency: 866.742.0742  
Web: [www.talonlpe.com](http://www.talonlpe.com)

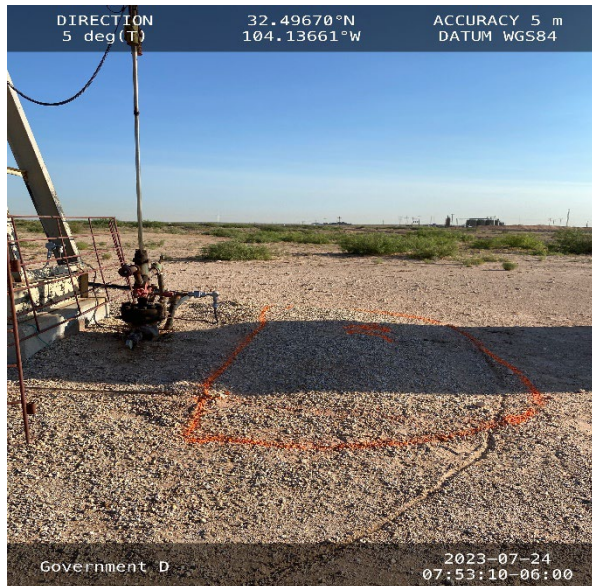


At Talon/LPE, we are quality in all things, including communication. Have a question? Need a quote? Send an email to [clientrelations@talonlpe.com](mailto:clientrelations@talonlpe.com).

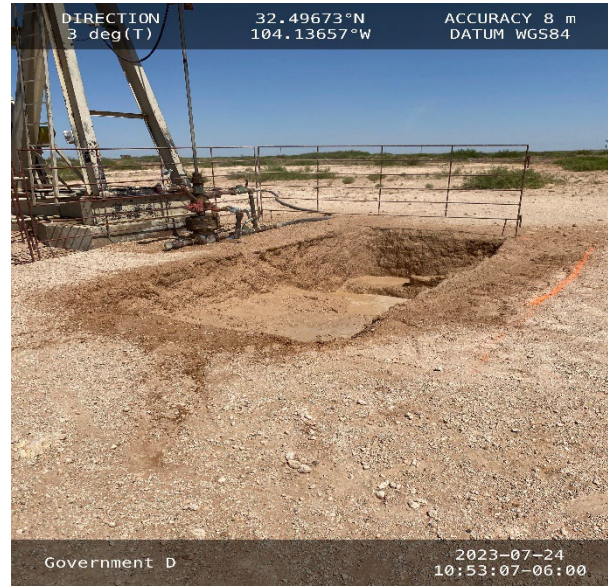


## **Appendix IV**

### Photographic Documentation

**Photograph No.1 Description:**

Outlined Excavation

**Photograph No.2 Description:**

Excavation

**Photograph No.3 Description:**

Finished Hydrovac



## **Appendix V**

### Laboratory Reports



Report to:  
Chad Hensley



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Talon LPE

Project Name: Government D

Work Order: E309022

Job Number: 23042-0001

Received: 9/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/11/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 9/11/23

Chad Hensley  
408 W Texas Ave  
Artesia, NM 88210



Project Name: Government D  
Workorder: E309022  
Date Received: 9/5/2023 8:15:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/5/2023 8:15:00AM, under the Project Name: Government D.

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

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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

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

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

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Sample Summary

Talon LPE	Project Name:	Government D	Reported:  09/11/23 10:51
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW-1	E309022-01A	Soil	09/01/23	09/05/23	Glass Jar, 4 oz.
SW-2	E309022-02A	Soil	09/01/23	09/05/23	Glass Jar, 4 oz.
C-1 3.5'	E309022-03A	Soil	09/01/23	09/05/23	Glass Jar, 4 oz.



## Sample Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Government D Project Number: 23042-0001 Project Manager: Chad Hensley	<b>Reported:</b> 9/11/2023 10:51:56AM
---	---	--

## SW-1

## E309022-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2336040	
Benzene	ND	0.0250	1	09/06/23	09/07/23	
Ethylbenzene	ND	0.0250	1	09/06/23	09/07/23	
Toluene	ND	0.0250	1	09/06/23	09/07/23	
o-Xylene	ND	0.0250	1	09/06/23	09/07/23	
p,m-Xylene	ND	0.0500	1	09/06/23	09/07/23	
Total Xylenes	ND	0.0250	1	09/06/23	09/07/23	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		09/06/23	09/07/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2336040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/23	09/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.4 %	70-130		09/06/23	09/07/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2336059	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/23	09/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/23	09/08/23	
Surrogate: n-Nonane	99.7 %	50-200		09/06/23	09/08/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2336055	
Chloride	204	20.0	1	09/06/23	09/10/23	



## Sample Data

Talon LPE  
408 W Texas Ave  
Artesia NM, 88210

Project Name: Government D  
Project Number: 23042-0001  
Project Manager: Chad Hensley

**Reported:**  
9/11/2023 10:51:56AM

## SW-2

## E309022-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2336040	
Benzene	ND	0.0250	1	09/06/23	09/07/23	
Ethylbenzene	ND	0.0250	1	09/06/23	09/07/23	
Toluene	ND	0.0250	1	09/06/23	09/07/23	
o-Xylene	ND	0.0250	1	09/06/23	09/07/23	
p,m-Xylene	ND	0.0500	1	09/06/23	09/07/23	
Total Xylenes	ND	0.0250	1	09/06/23	09/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		09/06/23	09/07/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2336040	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/23	09/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		09/06/23	09/07/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2336059	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/23	09/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/23	09/08/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		09/06/23	09/08/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2336055	
Chloride	194	20.0	1	09/06/23	09/10/23	



## Sample Data

Talon LPE  
408 W Texas Ave  
Artesia NM, 88210

Project Name: Government D  
Project Number: 23042-0001  
Project Manager: Chad Hensley

**Reported:**  
9/11/2023 10:51:56AM

C-1 3.5'

E309022-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336040
Benzene	ND	0.0250	1	09/06/23	09/07/23	
Ethylbenzene	ND	0.0250	1	09/06/23	09/07/23	
Toluene	ND	0.0250	1	09/06/23	09/07/23	
o-Xylene	ND	0.0250	1	09/06/23	09/07/23	
p,m-Xylene	ND	0.0500	1	09/06/23	09/07/23	
Total Xylenes	ND	0.0250	1	09/06/23	09/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		09/06/23	09/07/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2336040
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/06/23	09/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		09/06/23	09/07/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2336059
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/23	09/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/23	09/08/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		09/06/23	09/08/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336055
Chloride	184	20.0	1	09/06/23	09/10/23	





## QC Summary Data

Talon LPE	Project Name:	Government D	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	9/11/2023 10:51:56AM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2336040-BLK1)

Prepared: 09/06/23 Analyzed: 09/07/23

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	7.59		8.00		94.9	70-130			

## LCS (2336040-BS1)

Prepared: 09/06/23 Analyzed: 09/07/23

Benzene	4.28	0.0250	5.00		85.6	70-130			
Ethylbenzene	4.28	0.0250	5.00		85.6	70-130			
Toluene	4.41	0.0250	5.00		88.2	70-130			
o-Xylene	4.31	0.0250	5.00		86.2	70-130			
p,m-Xylene	8.74	0.0500	10.0		87.4	70-130			
Total Xylenes	13.0	0.0250	15.0		87.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.35		8.00		91.9	70-130			

## Matrix Spike (2336040-MS1)

Source: E309014-01

Prepared: 09/06/23 Analyzed: 09/07/23

Benzene	4.63	0.0250	5.00	ND	92.6	54-133			
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133			
Toluene	4.66	0.0250	5.00	ND	93.1	61-130			
o-Xylene	4.63	0.0250	5.00	ND	92.5	63-131			
p,m-Xylene	9.44	0.0500	10.0	ND	94.4	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	93.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.7	70-130			

## Matrix Spike Dup (2336040-MSD1)

Source: E309014-01

Prepared: 09/06/23 Analyzed: 09/07/23

Benzene	4.47	0.0250	5.00	ND	89.3	54-133	3.59	20	
Ethylbenzene	4.50	0.0250	5.00	ND	89.9	61-133	3.00	20	
Toluene	4.51	0.0250	5.00	ND	90.2	61-130	3.20	20	
o-Xylene	4.49	0.0250	5.00	ND	89.9	63-131	2.92	20	
p,m-Xylene	9.15	0.0500	10.0	ND	91.5	63-131	3.10	20	
Total Xylenes	13.6	0.0250	15.0	ND	90.9	63-131	3.04	20	
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.7	70-130			



## QC Summary Data

Talon LPE	Project Name:	Government D	<b>Reported:</b>
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	9/11/2023 10:51:56AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2336040-BLK1)

Prepared: 09/06/23 Analyzed: 09/07/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			

## LCS (2336040-BS2)

Prepared: 09/06/23 Analyzed: 09/07/23

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			

## Matrix Spike (2336040-MS2)

Source: E309014-01

Prepared: 09/06/23 Analyzed: 09/07/23

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

## Matrix Spike Dup (2336040-MSD2)

Source: E309014-01

Prepared: 09/06/23 Analyzed: 09/07/23

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.9	70-130	5.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.2	70-130			



QC Summary Data

Talon LPE	Project Name:	Government D	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	9/11/2023 10:51:56AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2336059-BLK1)					Prepared: 09/06/23 Analyzed: 09/07/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.6		50.0		103	50-200			

LCS (2336059-BS1)					Prepared: 09/06/23 Analyzed: 09/07/23				
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

Matrix Spike (2336059-MS1)					Source: E308244-03		Prepared: 09/06/23 Analyzed: 09/07/23		
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	51.6		50.0		103	50-200			

Matrix Spike Dup (2336059-MSD1)					Source: E308244-03		Prepared: 09/06/23 Analyzed: 09/07/23		
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132	0.915	20	
Surrogate: n-Nonane	52.5		50.0		105	50-200			



QC Summary Data

Talon LPE	Project Name:	Government D	Reported:
408 W Texas Ave	Project Number:	23042-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	9/11/2023 10:51:56AM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2336055-BLK1)					Prepared: 09/06/23 Analyzed: 09/08/23				
Chloride	ND	20.0							
LCS (2336055-BS1)					Prepared: 09/06/23 Analyzed: 09/08/23				
Chloride	242	20.0	250		96.9	90-110			
Matrix Spike (2336055-MS1)					Source: E309018-01		Prepared: 09/06/23 Analyzed: 09/08/23		
Chloride	329	200	250	ND	132	80-120			M2
Matrix Spike Dup (2336055-MSD1)					Source: E309018-01		Prepared: 09/06/23 Analyzed: 09/08/23		
Chloride	247	200	250	ND	98.9	80-120	28.5	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

Talon LPE	Project Name:	Government D	
408 W Texas Ave	Project Number:	23042-0001	Reported:
Artesia NM, 88210	Project Manager:	Chad Hensley	09/11/23 10:51

- M2Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- NDAnalyte NOT DETECTED at or above the reporting limit
- NRNot Reported
- RPDRelative Percent Difference
- DNIDid Not Ignite

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

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





## Envirotech Analytical Laboratory

Printed: 9/5/2023 12:41:37PM

## 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:	Talon LPE	Date Received:	09/05/23 08:15	Work Order ID:	E309022
Phone:	(575) 746-8768	Date Logged In:	09/05/23 10:21	Logged In By:	Caitlin Mars
Email:	chensley@talonlpe.com	Due Date:	09/11/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



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

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July 03, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: GOVERNMENT D #6

Enclosed are the results of analyses for samples received by the laboratory on 06/28/23 14:45.

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

Received: 06/28/2023  
Reported: 07/03/2023  
Project Name: GOVERNMENT D #6  
Project Number: 702.520.060.01  
Project Location: MATADOR - EDDY COUNTY

Sampling Date: 06/28/2023  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S - 1 1' (H233344-01)**

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	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEx	<0.300	0.300	06/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	64.0	16.0	06/29/2023	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	06/29/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	65.4	10.0	06/29/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	37.8	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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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: 06/28/2023  
Reported: 07/03/2023  
Project Name: GOVERNMENT D #6  
Project Number: 702.520.060.01  
Project Location: MATADOR - EDDY COUNTY

Sampling Date: 06/28/2023  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S - 2 1' (H233344-02)**

BTX 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	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTX	<0.300	0.300	06/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	32.0	16.0	06/29/2023	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	06/29/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	66.2	10.0	06/29/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	53.6	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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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: 06/28/2023  
Reported: 07/03/2023  
Project Name: GOVERNMENT D #6  
Project Number: 702.520.060.01  
Project Location: MATADOR - EDDY COUNTY

Sampling Date: 06/28/2023  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: S - 3 1' (H233344-03)**

BTX 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	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTX	<0.300	0.300	06/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	32.0	16.0	06/29/2023	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	06/29/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	123	10.0	06/29/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	70.7	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 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  
CHAD HENSLEY  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 06/28/2023  
Reported: 07/03/2023  
Project Name: GOVERNMENT D #6  
Project Number: 702.520.060.01  
Project Location: MATADOR - EDDY COUNTY

Sampling Date: 06/28/2023  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: BG 1' (H233344-04)**

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	06/29/2023	ND	2.25	112	2.00	3.93		
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52		
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67		
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06		
Total BTEX	<0.300	0.300	06/29/2023	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	48.0	16.0	06/29/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 136 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: <u>Talon LPE</u>		P.O. #:
Project Manager: <u>Chad Hensley</u>		Company: <u>Mufelder</u>
Address: <u>408 W. Texas Ave</u>		Attn:
City: <u>Artesia</u>		Address:
Phone #: <u>575-746-8768</u>		City:
Fax #: <u>702.520.0601</u>		State: <u>NM</u> Zip: <u>88216</u>
Project #: <u>702.520.0601</u>		Project Owner: <u>Mufelder</u>
Project Name: <u>Government D #6</u>		State: <u>NM</u> Zip: <u>88216</u>
Project Location: <u>Eddy County</u>		City: <u>Artesia</u>
Sampler Name: <u>N. Reed</u>		Phone #:
Fax #:		

FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE	
<u>H233344</u>		<u>5-1</u>		<u>1</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>	
<u>2</u>		<u>5-2</u>		<u>1</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>	
<u>3</u>		<u>5-3</u>		<u>1</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>	
<u>4</u>		<u>736</u>		<u>1</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>	

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Relinquished By: <u>[Signature]</u>	Date: <u>8-28-23</u>	Received By: <u>[Signature]</u>	Date: <u>8-28-23</u>
Time: <u>1445</u>	Time: <u>1445</u>	Time: <u>1445</u>	Time: <u>1445</u>
Relinquished By: <u>[Signature]</u>	Date: <u>8-28-23</u>	Received By: <u>[Signature]</u>	Date: <u>8-28-23</u>
Time: <u>1445</u>	Time: <u>1445</u>	Time: <u>1445</u>	Time: <u>1445</u>

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact		Thermometer ID #113	Rush	Cool Intact	Observed Temp. °C
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

**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 270811

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 270811
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	11/1/2023