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Closure Report

Merchant Central Battery
Lea County, New Mexico
Incident # NAPP2318123847

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

October, 2023

NMOCD

506 W. Texas Ave
Artesia, NM 88210

Subject: **Closure Report**
Merchant Central Battery
Lea County, New Mexico
Incident # NAPP2318123847

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 Merchant Central Battery is located approximately 29 miles southwest of Hobbs, New Mexico. The legal location for this release is Unit Letter L, Section 35, Township 21 South and Range 33 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.442247 and -103.544443. A Site Location Map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is comprised of Kermit sands and Dune land, 0 to 12 percent slopes. The referenced soil data is presented in [Appendix II](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of Eolian and Piedmont deposits, Holocene to middle Pleistocene in age.

Groundwater and Site Characterization

Based on the New Mexico Office of the State Engineer Database, the nearest reported groundwater data point is CP-1187. The temporary well was completed to a depth of 103 feet below ground surface (bgs) in October 2021 and is located 0.42 miles from the subject site. Groundwater was not encountered. 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 low potential Karst area. See [Appendix II](#) for the site characterization data.

Approximate Depth to Groundwater	>100 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

Based on the New Mexico Oil Conservation Division's (NMOCD) criteria, the cleanup criteria for this site is based on groundwater depth greater than 100 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 release on June 29, 2023 and reported it to NMOCD. The C-141 submitted to the NMOCD, incident number NAPP2318123847, stated the release occurred from a separator, resulting in 82 barrels (bbls) of oil misted in the adjacent pasture and no bbls were recovered. The site map is presented in [Appendix I](#).

Site Assessment

On June 29, 2023, Talon personnel mobilized to the site to conduct an initial site assessment of the area. The impacted area was visually assessed and photographed to determine the following remediation actions.

Remediation Activities

On June 30, 2023, Talon personnel arrived at the site to remove oil coated vegetation and surface impacted soil. Vegetation and surface contamination were removed through scraping activities northwest of the location. Contaminated vegetation was transported to Lea Land

From July 10 through July 12, 2023, Talon personnel applied Micro-blaze® to the 393,000 sq/ft impacted area northwest of location.

On July 25, Talon personnel returned to the location to collect 20 samples from the release area. Samples were taken and 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 in the data table below.

Table 1
Site Assessment Data

Merchant CTB									
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	7/25/23	0'	ND	ND	ND	ND	ND	0	16
S-2	7/25/23	0'	ND	ND	ND	192	50	242	32
S-3	7/25/23	0'	ND	ND	ND	10.8	ND	10.8	16
S-4	7/25/23	0'	ND	ND	ND	514	162	676	32
S-5	7/25/23	0'	ND	ND	ND	719	224	943	16
S-6	7/25/23	0'	ND	ND	ND	391	166	557	16
S-7	7/25/23	0'	ND	ND	ND	ND	ND	0	ND
S-8	7/25/23	0'	ND	ND	ND	13.2	ND	13.2	16
S-9	7/25/23	0'	ND	ND	ND	ND	ND	0	16
S-10	7/25/23	0'	ND	ND	ND	156	82.9	238.9	ND
S-11	7/25/23	0'	ND	ND	ND	ND	ND	0	16
S-12	7/25/23	0'	ND	ND	ND	ND	ND	0	16
S-13	7/25/23	0'	ND	ND	ND	ND	ND	0	16
S-14	7/25/23	0'	ND	ND	ND	ND	ND	0	16
S-15	7/25/23	0'	ND	ND	ND	ND	ND	0	16
S-16	7/25/23	0'	ND	ND	ND	ND	ND	0	ND
S-17	7/25/23	0'	ND	ND	ND	ND	ND	0	ND
S-18	7/25/23	0'	ND	ND	ND	ND	ND	0	16
S-19	7/25/23	0'	ND	ND	ND	ND	ND	0	ND
S-20	7/25/23	0'	ND	ND	ND	ND	ND	0	ND

NOTES:

BGS Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

MRO Motor oil range organics

S Sample

ND Analyte Not Detected

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

On August 16, 2023, Talon personnel collected 15 composite samples surface soil samples in the assessment areas of S-2, S-4, S-5, S-6, and S-10, that previously exceeded the NMOCD closure criteria.

Only one (1) surface sample area exceeded the closure criteria for TPH from the August 16, 2023 sampling event. The sample area of C-1 was excavated to a depth of three (3) feet bgs to remove the impacted soil. The area was also sampled on September 7, 2023 for the inclusion of a sidewall sample.

The composite soil samples were transported with the chain of custody to the Envirotech, Inc. laboratory in Farmington, New Mexico for analysis of Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (TPH, EPA Method 8015D) and Volatile Organics (BTEX, EPA Method 8260).

Table 2
Confirmation Sampling 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	8/16/2023	Surface	ND	ND	ND	900	653	1553	ND
	9/7/2023	3'	ND	ND	ND	ND	ND	0	ND
SW-1	10/6/2023	0-3'	ND	ND	ND	ND	ND	0	106
C-2	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND
C-3	8/16/2023	Surface	ND	ND	ND	26.3	ND	26.3	ND
C-4	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND
C-5	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND
C-6	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND
C-7	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND
C-8	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND
C-9	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND
C-10	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND
C-11	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND
C-12	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND
C-13	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND
C-14	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND
C-15	8/16/2023	Surface	ND	ND	ND	ND	ND	0	ND

NOTES:

BGS Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics

Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria

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

DRO Diesel range organics

MRO Motor oil range organics

C Confirmation Sample

ND Analyte Not
Detected

Sample locations are illustrated on Figure 1 and Figure 2 in [Appendix I](#). The excavation of C-1 is presented as Figure 3 in [Appendix I](#). The complete laboratory analytical reports are presented in [Appendix V](#).

Remedial Action Summary

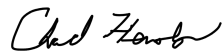
- The impacted areas were scraped approximately 0.5 feet bgs and an application of Micro-Blaze solution was Talon field titrated soil samples for total chlorides to guide the vertical and horizontal extents of the excavation process.
- Pursuant to NMOCD guidance, confirmation soil samples were collected 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 were backfilled with new like material (topsoil), machine compacted, and contoured to match the surrounding location.
- A copy of the Final C-141 form is 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

- Figure 1 – Assessment Map
- Figure 2 – Confirmation Sample Map
- Figure 3 – Excavation Map
- Figure 4 – Location Map
- Figure 5 – Topographic Map
- Figure 6 – Karst Map

Appendix II Groundwater Data, Soil Survey, FEMA Flood Map

Appendix III C-141 Form Correspondence

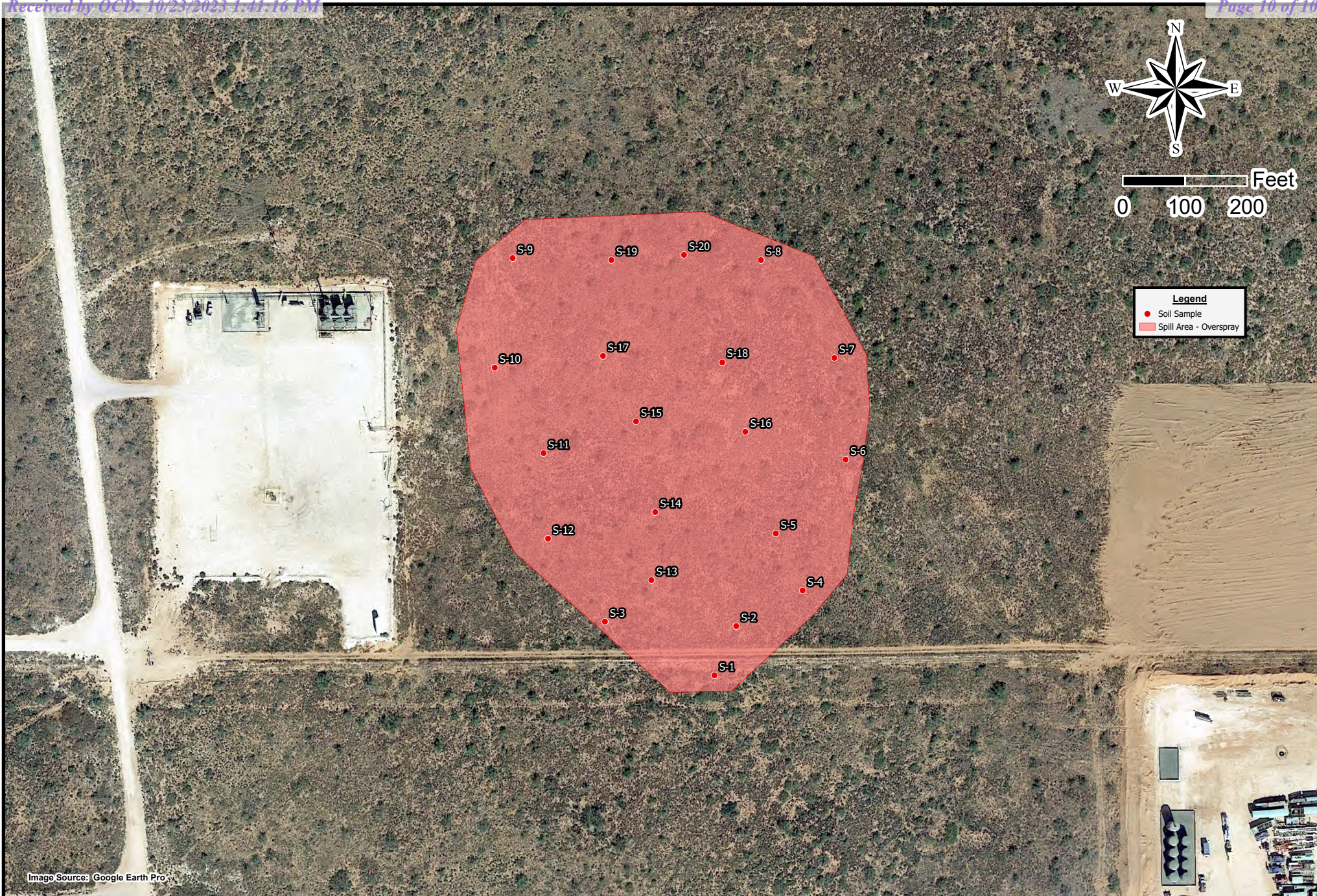
Appendix IV Photographic Documentation

Appendix V Laboratory Report



Appendix I

Site Maps



Drafted: 10/17/2023
1 in = 200 ft
Drafted By: IJR

Matador Resources Company
Merchant CTB
Lea County, NM
Figure 1 - Assessment Map

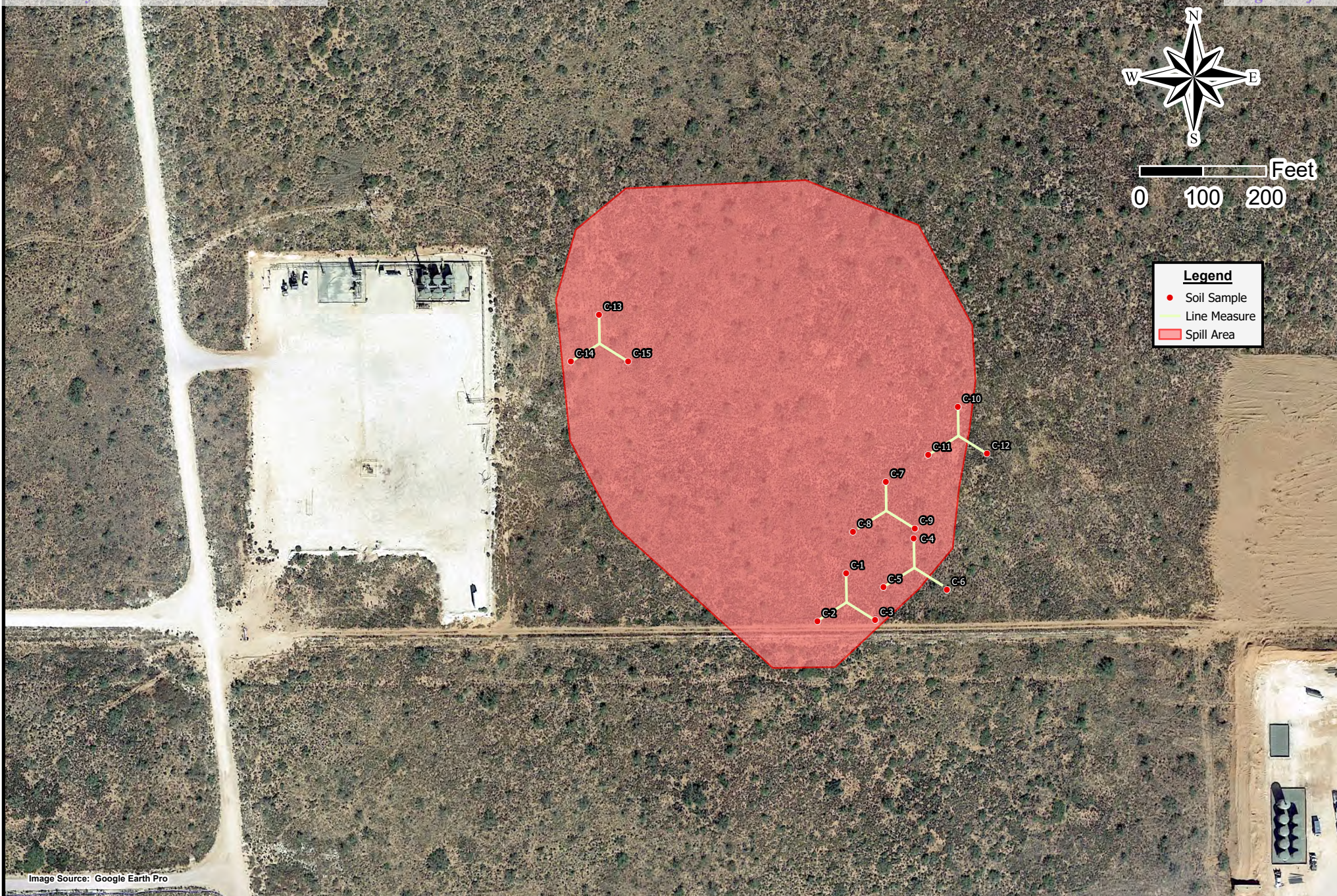


Image Source: Google Earth Pro



Drafted: 10/11/2023
1 in = 200 ft
Drafted By: IJR

Matador Resources Company
Merchant CTB
Lea County, NM
Figure 2 - Confirmation Sample Map



Image Source: Google Earth Pro



Drafted: 10/10/2023

1 in = 50 ft

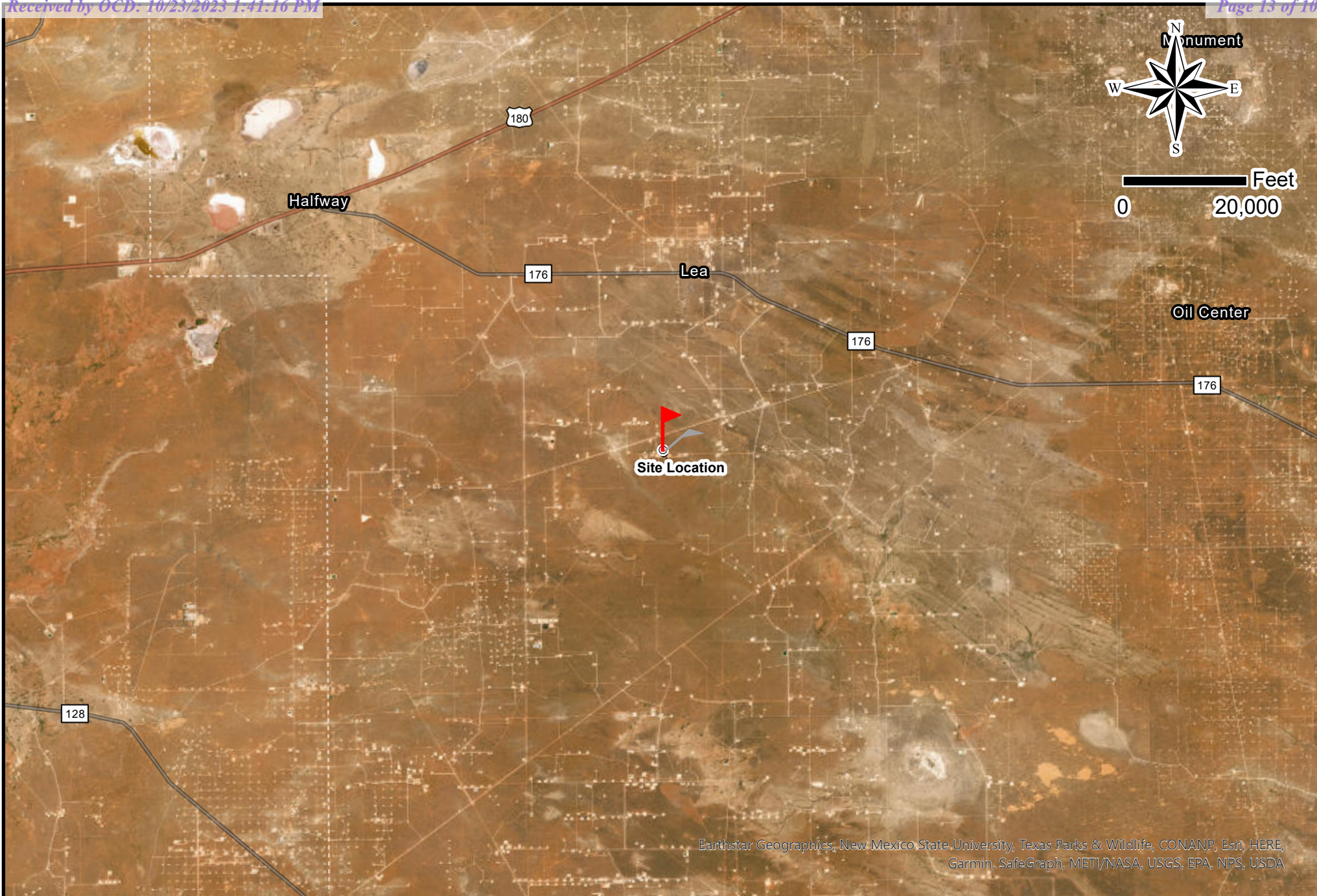
Drafted By: IJR

Matador Resources Company

Merchant CTB

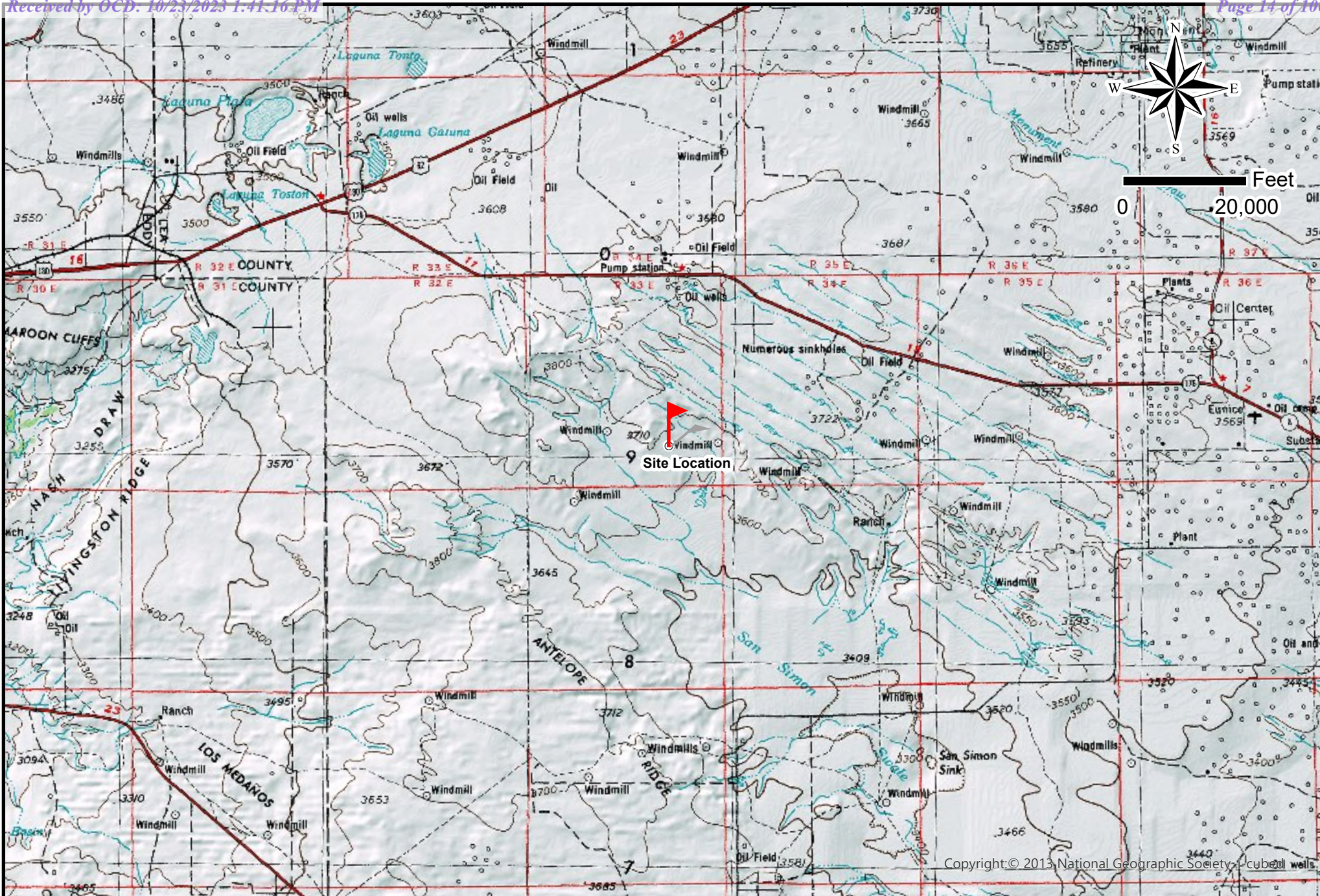
Lea County, NM

Figure 3 - Excavation Map



Drafted: 10/10/2023
1 in = 20,000 ft
Drafted By: IJR

Matador Resources Company
Merchant CTB
Lea County, NM
Figure 4 - Site Location Map



Copyright:© 2013 National Geographic Society, Inc.



Drafted: 10/10/2023

1 in = 20,000 ft

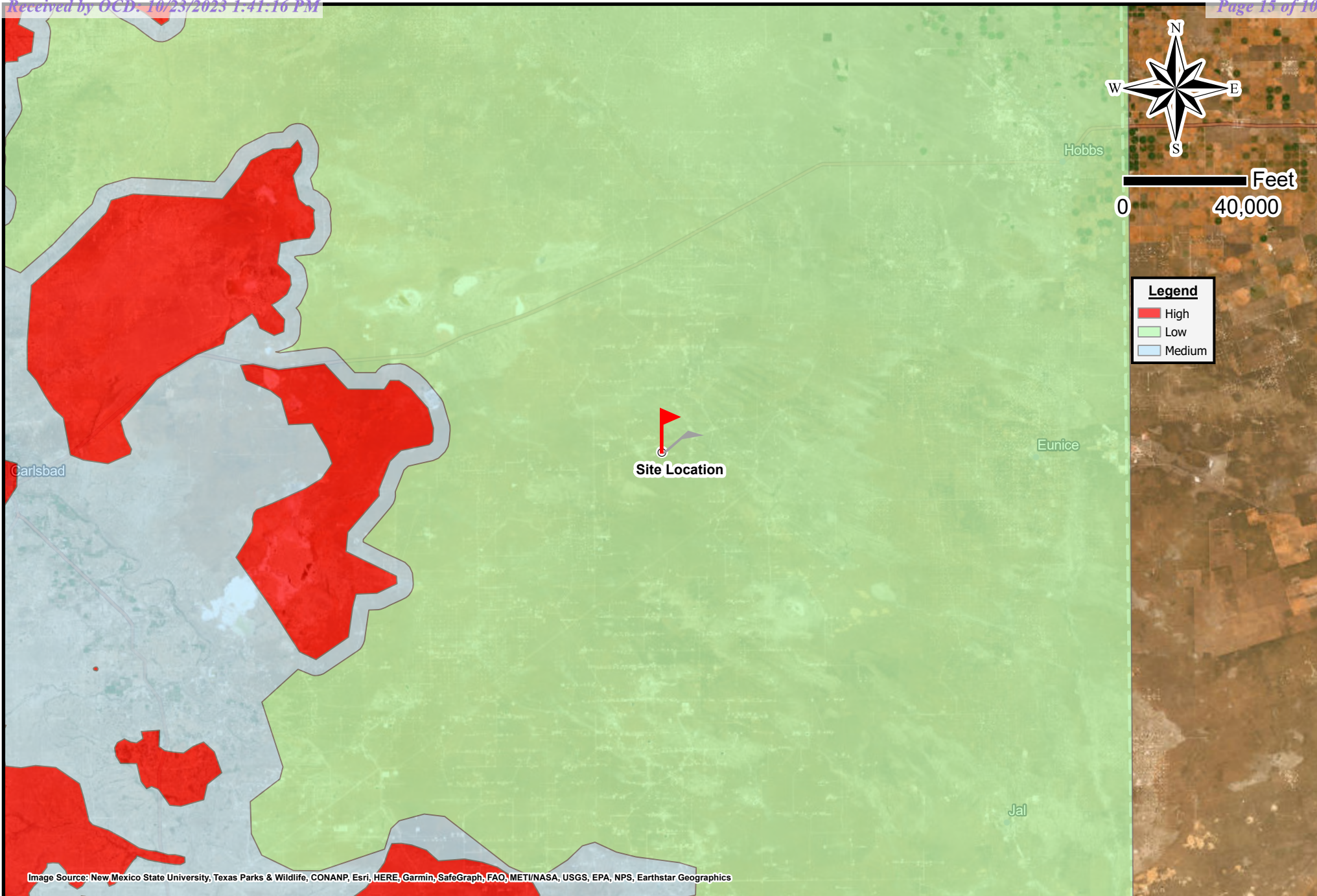
Drafted By: IJR

Matador Resources Company

Merchant CTB

Lea County, NM

Figure 5 - Topographic Map



Drafted: 10/10/2023
1 in = 40,000 ft
Drafted By: IJR

Matador Resources Company
Merchant CTB
Lea County, NM
Figure 6 - Karst Map



Appendix II

Groundwater Data


Soil Survey

FEMA Flood Map



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01887 POD1	2	2	2	35	21S	33E	637492	3590319 
<hr/>									
Driller License:	1249	Driller Company:				ATKINS ENGINEERING ASSOC. INC.			
Driller Name:	ATKINS, JACKIE D.UELENER								
Drill Start Date:	10/07/2021	Drill Finish Date:				10/07/2021	Plug Date:	10/14/2021	
Log File Date:	11/02/2021	PCW Rcv Date:				Source:			
Pump Type:	Pipe Discharge Size:				Estimated Yield:				
Casing Size:	Depth Well:				Depth Water:				
<hr/>									

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.

10/2/23 1:15 PM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us


1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1887			
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700			
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Stuit 950				CITY Houston			
					STATE TX			
					ZIP 77077			
WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 26		SECONDS 29.53		N	
	LONGITUDE 103		32		14.57			W
* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NE NE Sec. 35 T21S R33E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 10/07/2021		DRILLING ENDED 10/07/2021		DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 103	
							DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	103	±6.5	Boring- HSA	-	-	-	-
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	CP-14887	POD NO.	1	TRN NO.	703459
LOCATION	21S.33E.35.222			WELL TAG ID NO.	—

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	19	19	Sand, Fine-grained, poorly graded, with Caliche, Tannish White	Y ✓ N	
	19	29	10	Sand, Fine-grained, poorly graded, Brown	Y ✓ N	
	29	103	74	Sand, Fine-grained, Poorly graded, with clay, Reddish Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.					
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 Jackie D. Atkins				10/27/2021	
SIGNATURE OF DRILLER / PRINT SIGNEE NAME				DATE		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.

POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 2 OF 2



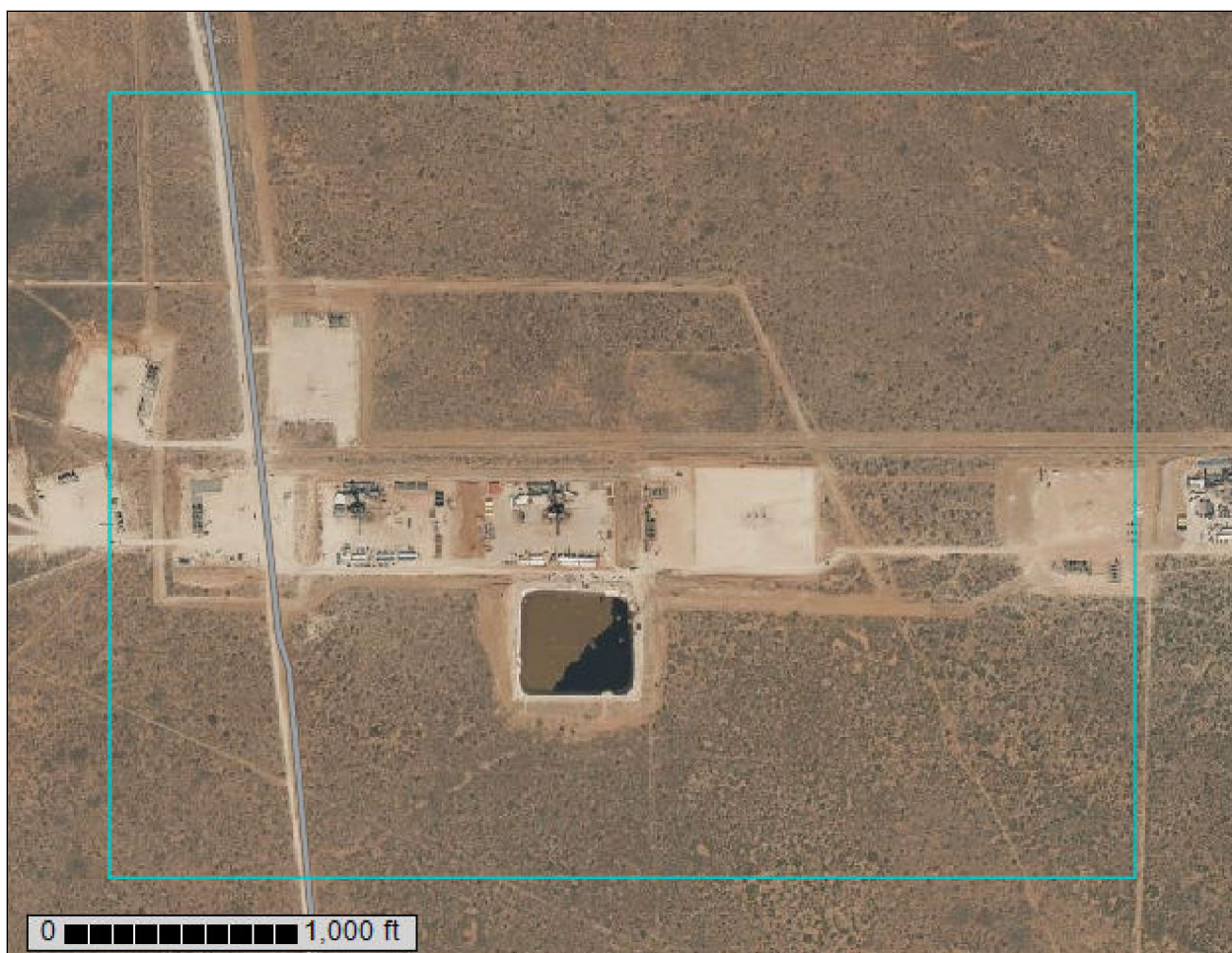
United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

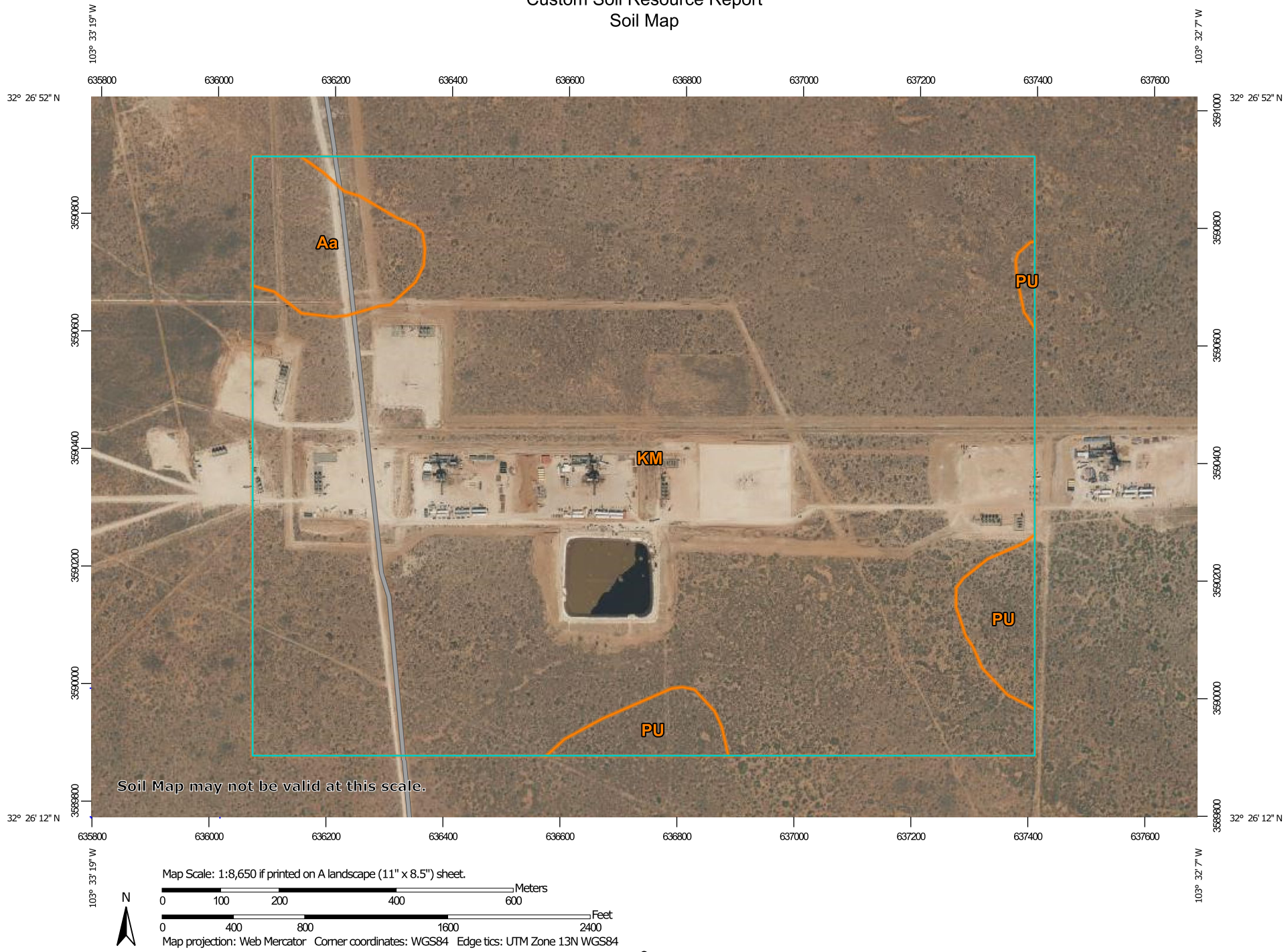
A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Lea County, New Mexico



October 2, 2023


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: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Aa	Active dune land	14.6	4.3%
KM	Kermit soils and Dune land, 0 to 12 percent slopes	310.6	91.9%
PU	Pyote and Maljamar fine sands	13.0	3.8%
Totals for Area of Interest		338.1	100.0%

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 landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the

Custom Soil Resource Report

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.

Custom Soil Resource Report

Lea County, New Mexico

Aa—Active dune land

Map Unit Setting

National map unit symbol: dmny

Elevation: 3,500 to 4,400 feet

Mean annual precipitation: 12 to 15 inches

Mean annual air temperature: 58 to 62 degrees F

Frost-free period: 195 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Dune land: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dune Land

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand

C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: A

Hydric soil rating: No

Minor Components

Springer

Percent of map unit: 10 percent

Ecological site: R077DY046TX - Sandy 12-17" PZ

Hydric soil rating: No

Brownfield

Percent of map unit: 3 percent

Ecological site: R077DY046TX - Sandy 12-17" PZ

Hydric soil rating: No

Gomez

Percent of map unit: 2 percent

Ecological site: R077CY035TX - Sandy 16-21" PZ

Hydric soil rating: No

Custom Soil Resource Report

KM—Kermit soils and Dune land, 0 to 12 percent slopes**Map Unit Setting**

National map unit symbol: dmpx
Elevation: 3,000 to 4,400 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: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit**Setting**

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

Typical profile

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

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 3 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 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BC022NM - Sandhills

Custom Soil Resource Report

Hydric soil rating: No

Description of Dune Land**Setting**

Landform: Dunes

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

Landform position (three-dimensional): Side slope

Down-slope shape: Concave, convex, linear

Across-slope shape: Convex

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand

C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: A

Hydric soil rating: No

Minor Components**Palomas**

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Pyote

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

PU—Pyote and Maljamar fine sands**Map Unit Setting**

National map unit symbol: dmqq

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Custom Soil Resource Report

Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Maljamar and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote**Setting**

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
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: 5 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 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar**Setting**

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam

Custom Soil Resource Report

Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very low

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: 5 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 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No



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	nAPP2318123847
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)
Contact mailing address	5347 N. 26th Street 2nd Floor, Artesia, NM 88210		

Location of Release Source

Latitude 32.442247 Longitude -103.544443
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Merchant Central Battery	Site Type	Oil
Date Release Discovered	6/29/2023	API#	(if applicable)

Unit Letter	Section	Township	Range	County
L	35	21S	33E	Lea

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) 82	Volume Recovered (bbls) 0
<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


Release from separator

Incident ID	nAPP2318123847
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Yes, release was greater than 25 bbl
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>10/23/2023</u>
email: <u>clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	nAPP2318123847
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>100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

Incident ID	nAPP2318123847
District RP	
Facility ID	
Application ID	

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

Printed Name: Clinton Talley Title: EHS Supervisor

Signature: *Clinton Talley* Date: 10/23/2023

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

OCD Only

Received by: Shelly Wells Date: 10/23/2023

Incident ID	nAPP2318123847
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Clinton Talley Title: EHS Supervisor
Signature: *Clint Talley* Date: 10/23/2023
email: clinton.talley@matadorresources.com Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells Date: 10/23/2023

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: *Nelson Velez* Date: 02/06/2024
Printed Name: Nelson Velez Title: Environmental Specialist - Adv

From: [Enviro, OCD, EMNRD](#)
To: [Chad Hensley](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] Merchant CTB sampling event
Date: Friday, July 14, 2023 10:33:07 AM
Attachments: [image004.png](#)
[image005.png](#)

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

Chad,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Chad Hensley <chensley@talonlpe.com>
Sent: Friday, July 14, 2023 10:31 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Nathaniel Rose <nrose@talonlpe.com>; Carlos Jaramillo <cjaramillo@talonlpe.com>; David J. Adkins <dadkins@talonlpe.com>
Subject: [EXTERNAL] Merchant CTB 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,

On behalf of Matador, Talon will be conducting a confirmation sampling event on 7/18/2023 at 10am.

Incident Number: NAPP2318123847
Lat and Long: 32.442247,-103.544443
Site location name: Merchant CTB

Chad Hensley

Environmental Project Manager

Office: 575.746.8768 x708

Direct: 575.616.4023

Cell: 575.246.0032

Fax: 575.746.8905

Emergency: 866.742.0742

Web: www.talonlpe.com



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



Appendix IV

Photographic Documentation



Matador Resources
Merchant Central Battery
Lea County, New Mexico



Photograph No.1 Description:

Initial release in adjacent pasture



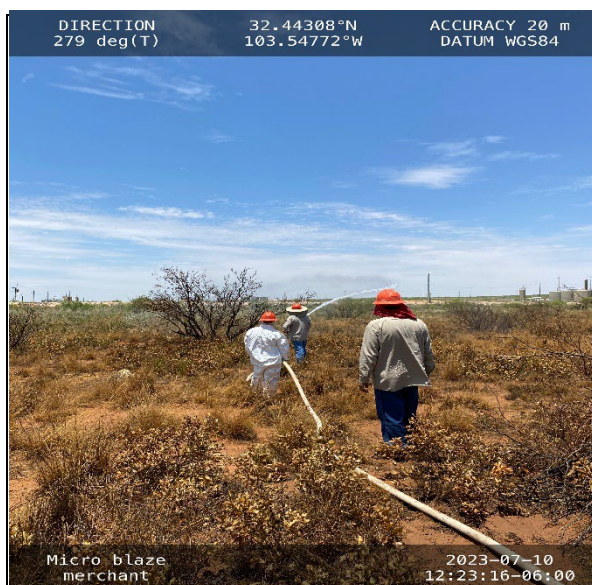
Photograph No.2 Description:

Initial release on the pad location



Photograph No.3 Description:

Application of Micro-Blaze® solution to the pasture



Photograph No.4 Description:

Application of Micro-Blaze® solution to the pasture



Matador Resources
Merchant Central Battery
Lea County, New Mexico

**Photograph No.5 Description:**

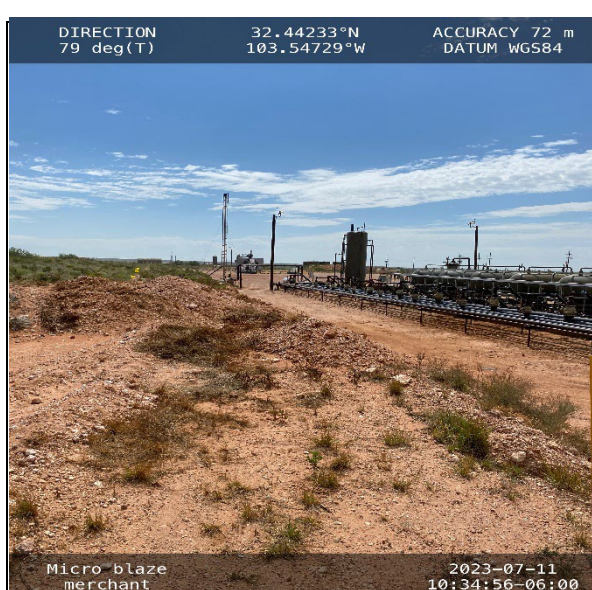
View of the scraped pad location

**Photograph No.6 Description:**

View of the scraped pasture area

**Photograph No.7 Description:**

View of the scraped pasture area

**Photograph No.8 Description:**

View of the scraped pad location



Appendix V

Laboratory Reports



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

August 02, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MERCHANT

Enclosed are the results of analyses for samples received by the laboratory on 07/26/23 14:05.

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, flowing style.

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:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 1 SURFACE (H233913-01)

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	08/01/2023	ND	2.00	100	2.00	3.45		
Toluene*	<0.050	0.050	08/01/2023	ND	1.92	96.2	2.00	3.44		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.98	98.9	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.91	98.5	6.00	2.10		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	16.0	16.0	07/31/2023	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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE 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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 2 SURFACE (H233913-02)

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	08/01/2023	ND	2.00	100	2.00	3.45		
Toluene*	<0.050	0.050	08/01/2023	ND	1.92	96.2	2.00	3.44		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.98	98.9	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.91	98.5	6.00	2.10		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	32.0	16.0	07/31/2023	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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	192	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	50.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 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:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 3 SURFACE (H233913-03)

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	08/01/2023	ND	2.00	100	2.00	3.45		
Toluene*	<0.050	0.050	08/01/2023	ND	1.92	96.2	2.00	3.44		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.98	98.9	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.91	98.5	6.00	2.10		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	16.0	16.0	07/31/2023	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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	10.8	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2023
Reported: 08/02/2023
Project Name: MERCHANT
Project Number: 702520.061.01
Project Location: MATADOR - LEA COUNTY NM

Sampling Date: 07/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brandi Bautista

Sample ID: S - 4 SURFACE (H233913-04)

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	08/01/2023	ND	2.00	100	2.00	3.45		
Toluene*	<0.050	0.050	08/01/2023	ND	1.92	96.2	2.00	3.44		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.98	98.9	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.91	98.5	6.00	2.10		
Total BTEx	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	07/31/2023	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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	514	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	162	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 5 SURFACE (H233913-05)

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	08/01/2023	ND	2.00	100	2.00	3.45		
Toluene*	<0.050	0.050	08/01/2023	ND	1.92	96.2	2.00	3.44		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.98	98.9	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.91	98.5	6.00	2.10		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	16.0	16.0	07/31/2023	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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	719	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	224	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2023
Reported: 08/02/2023
Project Name: MERCHANT
Project Number: 702520.061.01
Project Location: MATADOR - LEA COUNTY NM

Sampling Date: 07/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brandi Bautista

Sample ID: S - 6 SURFACE (H233913-06)

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	08/01/2023	ND	2.00	100	2.00	3.45	
Toluene*	<0.050	0.050	08/01/2023	ND	1.92	96.2	2.00	3.44	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.98	98.9	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.91	98.5	6.00	2.10	
Total BTEX	<0.300	0.300	08/01/2023	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	16.0	16.0	07/31/2023	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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	391	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	166	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 7 SURFACE (H233913-07)

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	08/01/2023	ND	2.00	100	2.00	3.45		
Toluene*	<0.050	0.050	08/01/2023	ND	1.92	96.2	2.00	3.44		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.98	98.9	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.91	98.5	6.00	2.10		
Total BTEX	<0.300	0.300	08/01/2023	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	<16.0	16.0	07/31/2023	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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 8 SURFACE (H233913-08)

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	08/01/2023	ND	2.00	100	2.00	3.45		
Toluene*	<0.050	0.050	08/01/2023	ND	1.92	96.2	2.00	3.44		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.98	98.9	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.91	98.5	6.00	2.10		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	16.0	16.0	07/31/2023	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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	13.2	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 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:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 9 SURFACE (H233913-09)

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	08/01/2023	ND	2.00	100	2.00	3.45		
Toluene*	<0.050	0.050	08/01/2023	ND	1.92	96.2	2.00	3.44		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.98	98.9	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.91	98.5	6.00	2.10		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	16.0	16.0	07/31/2023	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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 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:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 10 SURFACE (H233913-10)

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	08/01/2023	ND	2.00	100	2.00	3.45		
Toluene*	<0.050	0.050	08/01/2023	ND	1.92	96.2	2.00	3.44		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.98	98.9	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.91	98.5	6.00	2.10		
Total BTEX	<0.300	0.300	08/01/2023	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	<16.0	16.0	07/31/2023	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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	156	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	82.9	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 11 SURFACE (H233913-11)

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	08/01/2023	ND	2.00	100	2.00	3.45	
Toluene*	<0.050	0.050	08/01/2023	ND	1.92	96.2	2.00	3.44	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.98	98.9	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.91	98.5	6.00	2.10	
Total BTEX	<0.300	0.300	08/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	16.0	16.0	07/31/2023	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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 12 SURFACE (H233913-12)

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	08/01/2023	ND	2.17	108	2.00	0.116	
Toluene*	<0.050	0.050	08/01/2023	ND	2.10	105	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.14	107	2.00	0.970	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.38	106	6.00	0.439	
Total BTX	<0.300	0.300	08/01/2023	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	16.0	16.0	07/31/2023	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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 13 SURFACE (H233913-13)

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	08/01/2023	ND	2.17	108	2.00	0.116		
Toluene*	<0.050	0.050	08/01/2023	ND	2.10	105	2.00	2.16		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.14	107	2.00	0.970		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.38	106	6.00	0.439		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	16.0	16.0	07/31/2023	ND	416	104	400	0.00		

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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 14 SURFACE (H233913-14)

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	08/01/2023	ND	2.17	108	2.00	0.116		
Toluene*	<0.050	0.050	08/01/2023	ND	2.10	105	2.00	2.16		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.14	107	2.00	0.970		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.38	106	6.00	0.439		
Total BTX	<0.300	0.300	08/01/2023	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	16.0	16.0	07/31/2023	ND	416	104	400	0.00		

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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 15 SURFACE (H233913-15)

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	08/01/2023	ND	2.17	108	2.00	0.116	
Toluene*	<0.050	0.050	08/01/2023	ND	2.10	105	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.14	107	2.00	0.970	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.38	106	6.00	0.439	
Total BTEx	<0.300	0.300	08/01/2023	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	16.0	16.0	07/31/2023	ND	416	104	400	0.00		

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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 16 SURFACE (H233913-16)

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	08/01/2023	ND	2.17	108	2.00	0.116		
Toluene*	<0.050	0.050	08/01/2023	ND	2.10	105	2.00	2.16		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.14	107	2.00	0.970		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.38	106	6.00	0.439		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	<16.0	16.0	07/31/2023	ND	416	104	400	0.00		

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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Analytical Results For:

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

Received: 07/26/2023
Reported: 08/02/2023
Project Name: MERCHANT
Project Number: 702520.061.01
Project Location: MATADOR - LEA COUNTY NM

Sampling Date: 07/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brandi Bautista

Sample ID: S - 17 SURFACE (H233913-17)

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	08/01/2023	ND	2.17	108	2.00	0.116	
Toluene*	<0.050	0.050	08/01/2023	ND	2.10	105	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.14	107	2.00	0.970	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.38	106	6.00	0.439	
Total BTX	<0.300	0.300	08/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	<16.0	16.0	07/31/2023	ND	416	104	400	0.00		

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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Analytical Results For:

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

Received:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 18 SURFACE (H233913-18)

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	08/01/2023	ND	2.17	108	2.00	0.116	
Toluene*	<0.050	0.050	08/01/2023	ND	2.10	105	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.14	107	2.00	0.970	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.38	106	6.00	0.439	
Total BTX	<0.300	0.300	08/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	16.0	16.0	07/31/2023	ND	416	104	400	0.00		

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	07/31/2023	ND	202	101	200	2.60	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	215	107	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 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:	07/26/2023	Sampling Date:	07/25/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MERCHANT	Sampling Condition:	Cool & Intact
Project Number:	702520.061.01	Sample Received By:	Brandi Bautista
Project Location:	MATADOR - LEA COUNTY NM		

Sample ID: S - 19 SURFACE (H233913-19)

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	08/01/2023	ND	2.17	108	2.00	0.116		
Toluene*	<0.050	0.050	08/01/2023	ND	2.10	105	2.00	2.16		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.14	107	2.00	0.970		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.38	106	6.00	0.439		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	07/31/2023	ND	416	104	400	0.00		

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	07/31/2023	ND	204	102	200	0.505	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	228	114	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=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: 07/26/2023
Reported: 08/02/2023
Project Name: MERCHANT
Project Number: 702520.061.01
Project Location: MATADOR - LEA COUNTY NM

Sampling Date: 07/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Brandi Bautista

Sample ID: S - 20 SURFACE (H233913-20)

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	08/01/2023	ND	2.17	108	2.00	0.116	
Toluene*	<0.050	0.050	08/01/2023	ND	2.10	105	2.00	2.16	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	2.14	107	2.00	0.970	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	6.38	106	6.00	0.439	
Total BTX	<0.300	0.300	08/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	<16.0	16.0	07/31/2023	ND	416	104	400	0.00		

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	07/31/2023	ND	204	102	200	0.505	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	228	114	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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

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

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

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: C. Hensley		P.O. #:												
Address: 408 W. Texas Ave		Company:												
City: Artesia		Attn:												
Phone #: 575.746.8768		Address:												
Fax #: State: NM zip: 88210		City:												
Project #: 702520.061.01		State:												
Project Owner: Matador		Zip:												
Project Location: Lea County		Phone #:												
Sample Name: N. Rose		Fax #:												
FOR LAB USE ONLY														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :		
1	S-1 surface	C	1	<input checked="" type="checkbox"/>									7/25/23 9:35	
2	S-2 surface	C	1	<input checked="" type="checkbox"/>									7/25/23 9:41	
3	S-3 surface	C	1	<input checked="" type="checkbox"/>									7/25/23 9:48	
4	S-4 surface	C	1	<input checked="" type="checkbox"/>									7/25/23 9:56	
5	S-5 surface	C	1	<input checked="" type="checkbox"/>									7/25/23 10:03	
6	S-6 surface	C	1	<input checked="" type="checkbox"/>									7/25/23 10:10	
7	S-7 surface	C	1	<input checked="" type="checkbox"/>									7/25/23 10:14	
8	S-8 surface	C	1	<input checked="" type="checkbox"/>									7/25/23 10:19	
9	S-9 surface	C	1	<input checked="" type="checkbox"/>									7/25/23 10:25	
10	S-10 surface	C	1	<input checked="" type="checkbox"/>									7/25/23 10:33	
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Relinquished By:		Date: 7/26/23	Received By:											
Time: 1405		Band: Boultin												
Date:		Received By:												
Time:														
Delivered By: (Circle One)		#140		Sample Condition		CHECKED BY:								
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		(Initials)								
Sampler - UPS - Bus - Other:		29c		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		BB								
REMARKS:														
pg 1 of 2														



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: C. Hensley		P.O. #:			
Address: 408 W. Texas Ave		Company:			
City: Artesia		Attn:			
Phone #: 575.746.8768		Address:			
Fax #: Project Owner: Matador		City:			
Project #: 702520.061.01		State:			
Project Name: Merchant		Zip:			
Project Location: Lea County		Phone #:			
Sample Name: N. Rose		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	CL	BTEX	TPH	ANALYSIS REQUEST			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								ACID/BASE:	ICE / COOL	OTHER :	
11	S-11 surface	C	1			<input checked="" type="checkbox"/>						7/25/23	10:40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
12	S-12 surface	C	1			<input checked="" type="checkbox"/>						7/25/23	10:44	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
13	S-13 surface	C	1			<input checked="" type="checkbox"/>						7/25/23	10:48	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
14	S-14 surface	C	1			<input checked="" type="checkbox"/>						7/25/23	10:53	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
15	S-15 surface	C	1			<input checked="" type="checkbox"/>						7/25/23	10:58	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
16	S-16 surface	C	1			<input checked="" type="checkbox"/>						7/25/23	11:03	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
17	S-17 surface	C	1			<input checked="" type="checkbox"/>						7/25/23	11:08	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
18	S-18 surface	C	1			<input checked="" type="checkbox"/>						7/25/23	11:13	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
19	S-19 surface	C	1			<input checked="" type="checkbox"/>						7/25/23	11:17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
20	S-20 surface	C	1			<input checked="" type="checkbox"/>						7/25/23	11:24	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

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Relinquished By:	Date: 7-26-23	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 1405	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
Relinquished By:	Time:	Received By:	ps 2 of 2	

Delivered By: (Circle One) **29°C** **#140** Sample Condition ☒ Cool ☒ Intact ☐ Yes ☐ No ☐ Yes ☐ No **PS**

Sampler - UPS - Bus - Other:

Report to:
Chad Hensley



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Talon LPE

Project Name: Merchant

Work Order: E308137

Job Number: 23052-0001

Received: 8/18/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/22/23

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

Date Reported: 8/22/23

Chad Hensley
408 W Texas Ave
Artesia, NM 88210



Project Name: Merchant
Workorder: E308137
Date Received: 8/18/2023 8:15:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/18/2023 8:15:00AM, under the Project Name: Merchant.

The analytical test results summarized in this report with the Project Name: Merchant 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

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
C-1 SURFACE	6
C-2 SURFACE	7
C-3 SURFACE	8
C-4 SURFACE	9
C-5 SURFACE	10
C-6 SURFACE	11
C-7 SURFACE	12
C-8 SURFACE	13
C-9 SURFACE	14
C-10 SURFACE	15
C-11 SURFACE	16
C-12 SURFACE	17
C-13 SURFACE	18
C-14 SURFACE	19
C-15 SURFACE	20
QC Summary Data	21
QC - Volatile Organics by EPA 8021B	21
QC - Nonhalogenated Organics by EPA 8015D - GRO	22
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	23
QC - Anions by EPA 300.0/9056A	24

Table of Contents (continued)

Definitions and Notes	25
Chain of Custody etc.	26

Sample Summary

Talon LPE	Project Name:	Merchant	Reported:
408 W Texas Ave	Project Number:	23052-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	08/22/23 16:09

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-1 SURFACE	E308137-01A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-2 SURFACE	E308137-02A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-3 SURFACE	E308137-03A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-4 SURFACE	E308137-04A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-5 SURFACE	E308137-05A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-6 SURFACE	E308137-06A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-7 SURFACE	E308137-07A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-8 SURFACE	E308137-08A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-9 SURFACE	E308137-09A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-10 SURFACE	E308137-10A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-11 SURFACE	E308137-11A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-12 SURFACE	E308137-12A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-13 SURFACE	E308137-13A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-14 SURFACE	E308137-14A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.
C-15 SURFACE	E308137-15A	Soil	08/16/23	08/18/23	Glass Jar, 4 oz.



Sample Data

Talon LPE 408 W Texas Ave Artesia NM, 88210	Project Name: Merchant Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 8/22/2023 4:09:37PM
---------------------------------------------------	---------------------------------------------------------------------------------------	-----------------------------------------

C-1 SURFACE

E308137-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2333067	
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
Surrogate: 4-Bromochlorobenzene-PID	93.7 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2333067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.5 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2333075	
Diesel Range Organics (C10-C28)	900	25.0	1	08/18/23	08/18/23	
Oil Range Organics (C28-C36)	653	50.0	1	08/18/23	08/18/23	
Surrogate: n-Nonane	99.7 %	50-200		08/18/23	08/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2333078	
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-2 SURFACE

E308137-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.7 %	70-130	08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %	70-130	08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
<i>Surrogate: n-Nonane</i>		97.6 %	50-200	08/18/23	08/18/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-3 SURFACE

E308137-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	26.3	25.0	1	08/18/23	08/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
<i>Surrogate: n-Nonane</i>						
	96.3 %	50-200		08/18/23	08/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-4 SURFACE

E308137-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.6 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.6 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/18/23	
<i>Surrogate: n-Nonane</i>						
	95.0 %	50-200		08/18/23	08/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-5 SURFACE

E308137-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-6 SURFACE

E308137-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.0 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
<i>Surrogate: n-Nonane</i>						
	99.0 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-7 SURFACE

E308137-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-8 SURFACE

E308137-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-9 SURFACE

E308137-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
<i>Surrogate: n-Nonane</i>						
	88.4 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-10 SURFACE

E308137-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
<i>Surrogate: n-Nonane</i>						
	86.5 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE	Project Name:	Merchant	Reported: 8/22/2023 4:09:37PM
408 W Texas Ave	Project Number:	23052-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	

C-11 SURFACE
E308137-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2333067	
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2333067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.4 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2333075	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
<i>Surrogate: n-Nonane</i>						
	85.3 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2333078	
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-12 SURFACE

E308137-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
<i>Surrogate: n-Nonane</i>						
	84.6 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-13 SURFACE

E308137-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.8 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
<i>Surrogate: n-Nonane</i>						
	90.4 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-14 SURFACE

E308137-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
<i>Surrogate: n-Nonane</i>						
	85.0 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



Sample Data

Talon LPE
408 W Texas Ave
Artesia NM, 88210

Project Name: Merchant
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
8/22/2023 4:09:37PM

C-15 SURFACE

E308137-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Benzene	ND	0.0250	1	08/18/23	08/19/23	
Ethylbenzene	ND	0.0250	1	08/18/23	08/19/23	
Toluene	ND	0.0250	1	08/18/23	08/19/23	
o-Xylene	ND	0.0250	1	08/18/23	08/19/23	
p,m-Xylene	ND	0.0500	1	08/18/23	08/19/23	
Total Xylenes	ND	0.0250	1	08/18/23	08/19/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333067
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/18/23	08/19/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		08/18/23	08/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2333075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/18/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/18/23	08/19/23	
<i>Surrogate: n-Nonane</i>						
	87.3 %	50-200		08/18/23	08/19/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333078
Chloride	ND	20.0	1	08/18/23	08/22/23	



QC Summary Data

Talon LPE	Project Name:	Merchant	Reported:
408 W Texas Ave	Project Number:	23052-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	8/22/2023 4:09:37PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2333067-BLK1)

Prepared: 08/18/23 Analyzed: 08/19/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.28		8.00		91.0	70-130			

LCS (2333067-BS1)

Prepared: 08/18/23 Analyzed: 08/19/23

Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.07	0.0250	5.00		101	70-130			
Toluene	5.15	0.0250	5.00		103	70-130			
o-Xylene	5.07	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.3	70-130			

Matrix Spike (2333067-MS1)

Source: E308137-02

Prepared: 08/18/23 Analyzed: 08/19/23

Benzene	4.67	0.0250	5.00	ND	93.3	54-133			
Ethylbenzene	4.55	0.0250	5.00	ND	90.9	61-133			
Toluene	4.64	0.0250	5.00	ND	92.8	61-130			
o-Xylene	4.55	0.0250	5.00	ND	91.1	63-131			
p,m-Xylene	9.27	0.0500	10.0	ND	92.7	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	92.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

Matrix Spike Dup (2333067-MSD1)

Source: E308137-02

Prepared: 08/18/23 Analyzed: 08/19/23

Benzene	5.15	0.0250	5.00	ND	103	54-133	9.78	20	
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133	10.7	20	
Toluene	5.14	0.0250	5.00	ND	103	61-130	10.2	20	
o-Xylene	5.06	0.0250	5.00	ND	101	63-131	10.5	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	10.4	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	10.5	20	
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			



QC Summary Data

Talon LPE	Project Name:	Merchant	Reported:
408 W Texas Ave	Project Number:	23052-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	8/22/2023 4:09:37PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2333067-BLK1) Prepared: 08/18/23 Analyzed: 08/19/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			

LCS (2333067-BS2) Prepared: 08/18/23 Analyzed: 08/19/23

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

Matrix Spike (2333067-MS2) Source: E308137-02 Prepared: 08/18/23 Analyzed: 08/19/23

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

Matrix Spike Dup (2333067-MSD2) Source: E308137-02 Prepared: 08/18/23 Analyzed: 08/19/23

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0	ND	93.6	70-130	2.92	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



QC Summary Data

Talon LPE	Project Name:	Merchant	Reported:
408 W Texas Ave	Project Number:	23052-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	8/22/2023 4:09:37PM

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 (2333075-BLK1)					Prepared: 08/18/23 Analyzed: 08/18/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			

LCS (2333075-BS1)					Prepared: 08/18/23 Analyzed: 08/18/23				
Diesel Range Organics (C10-C28)	233	25.0	250		93.2	38-132			
Surrogate: n-Nonane	44.0		50.0		87.9	50-200			

Matrix Spike (2333075-MS1)					Source: E308135-02		Prepared: 08/18/23 Analyzed: 08/18/23		
Diesel Range Organics (C10-C28)	231	25.0	250	ND	92.6	38-132			
Surrogate: n-Nonane	42.1		50.0		84.2	50-200			

Matrix Spike Dup (2333075-MSD1)					Source: E308135-02		Prepared: 08/18/23 Analyzed: 08/18/23		
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.0	38-132	0.488	20	
Surrogate: n-Nonane	42.9		50.0		85.8	50-200			



QC Summary Data

Talon LPE	Project Name:	Merchant	Reported:
408 W Texas Ave	Project Number:	23052-0001	
Artesia NM, 88210	Project Manager:	Chad Hensley	8/22/2023 4:09:37PM

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 (2333078-BLK1)					Prepared: 08/18/23 Analyzed: 08/22/23				
Chloride	ND	20.0							
LCS (2333078-BS1)					Prepared: 08/18/23 Analyzed: 08/22/23				
Chloride	242	20.0	250		96.7	90-110			
Matrix Spike (2333078-MS1)					Source: E308137-01		Prepared: 08/18/23 Analyzed: 08/22/23		
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2333078-MSD1)					Source: E308137-01		Prepared: 08/18/23 Analyzed: 08/22/23		
Chloride	260	20.0	250	ND	104	80-120	3.21	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:	Merchant	
408 W Texas Ave	Project Number:	23052-0001	Reported:
Artesia NM, 88210	Project Manager:	Chad Hensley	08/22/23 16:09

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

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

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





CARDINAL

Laboratories

Lab WO #E308137
Job #23052-0001

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: C. Hensley		P.O. #:																																
Address: 408 W. Texas Ave		Company:																																
City: Artesia State: NM Zip: 88210		Attn:																																
Phone #: 575.746.8768 Fax #:		Address:																																
Project #: 702520.061.01 Project Owner: Matador		City:																																
Project Name: Merchant		State: Zip:																																
Project Location: Eddy County		Phone #:																																
Sampler Name: N. Rose		Fax #:																																
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		CL	BTEX	TPH																			
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																			
1	C-1	SURFACE	C	1			<input checked="" type="checkbox"/>							8/16/23	0805	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
2	C-2														0810	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
3	C-3														0813	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
4	C-4														0819	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
5	C-5														0821	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
6	C-6														0826	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
7	C-7														0829	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
8	C-8														0909	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
9	C-9														0913	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
10	C-10														0919	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																

PLEASE 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:	Date: 8/17/23 Time: 12:35	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: 8/17/23 Time: 12:38	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus <input checked="" type="radio"/> Other <input type="radio"/> Courier		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) CM
			REMARKS: 1042. Received By: Caitlin Mann 8/18/23 8:15

Envirotech Analytical Laboratory

Printed: 8/18/2023 10:31:07AM

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:	08/18/23 08:15	Work Order ID:	E308137
Phone:	(575) 746-8768	Date Logged In:	08/17/23 16:38	Logged In By:	Caitlin Mars
Email:	chensley@talonlpe.com	Due Date:	08/24/23 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? No

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Chad Hensley



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Merchant TB

Work Order: E309075

Job Number: 23052-0001

Received: 9/9/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/14/23

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: 9/14/23

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



Project Name: Merchant TB
Workorder: E309075
Date Received: 9/9/2023 9:00:00AM

Chad Hensley,

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

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
C-1 @ 3'	5
QC Summary Data	6
QC - Volatile Organic Compounds by EPA 8260B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

Matador Resources, LLC.	Project Name:	Merchant TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	09/14/23 13:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-1 @ 3'	E309075-01A	Soil	09/07/23	09/09/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Merchant TB
Project Number: 23052-0001
Project Manager: Chad Hensley

Reported:
9/14/2023 1:43:49PM

C-1 @ 3'

E309075-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337004
Benzene	ND	0.0250	1	09/11/23	09/12/23	
Ethylbenzene	ND	0.0250	1	09/11/23	09/12/23	
Toluene	ND	0.0250	1	09/11/23	09/12/23	
o-Xylene	ND	0.0250	1	09/11/23	09/12/23	
p,m-Xylene	ND	0.0500	1	09/11/23	09/12/23	
Total Xylenes	ND	0.0250	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene	107 %	70-130		09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		09/11/23	09/12/23	
Surrogate: Toluene-d8	100 %	70-130		09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2337004
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/11/23	09/12/23	
Surrogate: Bromofluorobenzene	107 %	70-130		09/11/23	09/12/23	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		09/11/23	09/12/23	
Surrogate: Toluene-d8	100 %	70-130		09/11/23	09/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2337029
Diesel Range Organics (C10-C28)	ND	25.0	1	09/12/23	09/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/12/23	09/13/23	
Surrogate: n-Nonane	99.6 %	50-200		09/12/23	09/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2337018
Chloride	ND	20.0	1	09/11/23	09/13/23	



Matador Resources, LLC.	Project Name:	Merchant TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	9/14/2023 1:43:49PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2337004-BLK1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2337004-BS1)					Prepared: 09/11/23 Analyzed: 09/11/23				
Benzene	2.49	0.0250	2.50		99.4	70-130			
Ethylbenzene	2.57	0.0250	2.50		103	70-130			
Toluene	2.48	0.0250	2.50		99.2	70-130			
o-Xylene	2.67	0.0250	2.50		107	70-130			
p,m-Xylene	5.22	0.0500	5.00		104	70-130			
Total Xylenes	7.89	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2337004-MS1)					Source: E309054-01	Prepared: 09/11/23 Analyzed: 09/11/23			
Benzene	2.51	0.0250	2.50	ND	100	48-131			
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135			
Toluene	2.49	0.0250	2.50	ND	99.7	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.20	0.0500	5.00	ND	104	43-135			
Total Xylenes	7.87	0.0250	7.50	ND	105	43-135			
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

Matrix Spike Dup (2337004-MSD1)					Source: E309054-01	Prepared: 09/11/23 Analyzed: 09/12/23			
Benzene	2.50	0.0250	2.50	ND	99.9	48-131	0.400	23	
Ethylbenzene	2.59	0.0250	2.50	ND	104	45-135	0.328	27	
Toluene	2.49	0.0250	2.50	ND	99.5	48-130	0.221	24	
o-Xylene	2.68	0.0250	2.50	ND	107	43-135	0.430	27	
p,m-Xylene	5.23	0.0500	5.00	ND	105	43-135	0.623	27	
Total Xylenes	7.91	0.0250	7.50	ND	105	43-135	0.558	27	
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.5	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Merchant TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	9/14/2023 1:43:49PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337004-BLK1)

Prepared: 09/11/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2337004-BS2)

Prepared: 09/11/23 Analyzed: 09/11/23

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike (2337004-MS2)

Source: E309054-01

Prepared: 09/11/23 Analyzed: 09/12/23

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.7	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike Dup (2337004-MSD2)

Source: E309054-01

Prepared: 09/11/23 Analyzed: 09/12/23

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130	5.78	20	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Merchant TB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	9/14/2023 1:43:49PM

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 (2337029-BLK1)					Prepared: 09/12/23 Analyzed: 09/13/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.7		50.0		97.3	50-200			

LCS (2337029-BS1)					Prepared: 09/12/23 Analyzed: 09/13/23				
Diesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
Surrogate: n-Nonane	46.5		50.0		93.0	50-200			

Matrix Spike (2337029-MS1)					Source: E309076-02		Prepared: 09/12/23 Analyzed: 09/13/23		
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	49.0		50.0		98.1	50-200			

Matrix Spike Dup (2337029-MSD1)					Source: E309076-02		Prepared: 09/12/23 Analyzed: 09/13/23		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132	0.743	20	
Surrogate: n-Nonane	46.9		50.0		93.8	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Merchant TB Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 9/14/2023 1:43:49PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2337018-BLK1)					Prepared: 09/11/23 Analyzed: 09/12/23				
Chloride	ND	20.0							
LCS (2337018-BS1)					Prepared: 09/11/23 Analyzed: 09/12/23				
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2337018-MS1)					Source: E309045-01		Prepared: 09/11/23 Analyzed: 09/12/23		
Chloride	287	20.0	250	20.9	106	80-120			
Matrix Spike Dup (2337018-MSD1)					Source: E309045-01		Prepared: 09/11/23 Analyzed: 09/12/23		
Chloride	291	20.0	250	20.9	108	80-120	1.54	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Matador Resources, LLC.	Project Name:	Merchant TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Chad Hensley	09/14/23 13:43

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

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

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



[illegible]

Envirotech Analytical Laboratory

Printed: 9/11/2023 11:04:36AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	09/09/23 09:00	Work Order ID:	E309075
Phone:	(972) 371-5200	Date Logged In:	09/09/23 11:15	Logged In By:	Alexa Michaels
Email:		Due Date:	09/15/23 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? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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 278436

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 278436
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/6/2024