



February 26, 2026

District Supervisor  
 Oil Conservation Division, District 1  
 811 South First Street  
 Artesia, New Mexico 88210

**Re: Remediation Report and Closure Request  
 Maverick Permian, LLC  
 Vacuum ABO 2 Injection Header Release  
 Unit Letter F, Section 4, Township 18 South, Range 35 East  
 Lea County, New Mexico  
 Incident ID# nAPP2321460560**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by Maverick Permian, LLC (Maverick) to complete the Site characterization, assessment, and remediation of a release that occurred at the Vacuum ABO 2 Injector Header, located in Public Land Survey System (PLSS) Unit Letter F, Section 4, Township 18 South, Range 35 East, in Lea County, New Mexico (Site). The release occurred at coordinates 32.778583°, -103.463601°, as shown in **Figures 1 and 2**.

**BACKGROUND**

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on August 2, 2023. The C-141 reports that the release occurred from an injection header trunkline rupture, resulting in a 22-barrel (bbl) release of produced water onto the pad and surrounding pasture. No fluids reported as released were recovered during the initial response activities. The NMOCD received the Notice of Release (NOR) on August 2, 2023, and the Initial C-141 was approved on August 24, 2023. Subsequently, the release Incident Identification (ID) nAPP2321460560 was assigned, and both are available from the NMOCD permitting portal. The release extent is shown in **Figure 3**.

**SITE CHARACTERIZATION**

Tetra Tech performed a Site characterization that included the identification of sensitive receptors, a depth to groundwater determination, and an assessment of site soils. Site Characterization data are summarized below and included in **Attachment 1**.

Site Characterization Summary	
Shallowest Depth to Groundwater (feet bgs)	> 55 feet bgs
Method to determine depth to groundwater	Direct Measure
Did this release impact groundwater or surface water	No
Distance to a continuously flowing watercourse	> 5 Miles
Distance to any lakebed, sinkhole, or playa lake	500 Feet to 1000 Feet
Distance to any occupied permanent residence, school, hospital, institution, or church	> 5 Miles

**Tetra Tech, Inc.**  
 1500 CityWest Boulevard, Suite 1000, Houston, Texas 77042  
 Tel +1.832.251.5160 | tetratech.com/oga | tetratech.com

Reclamation Report and Closure Request  
 Vacuum ABO 2 Injection Header Release  
 Incident ID# nAPP2321460560

Maverick Permian, LLC  
 February 26, 2026

Site Characterization Summary	
Distance to A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	0.5 to 1 Miles
Distance to any other freshwater well or spring	0.5 to 1 Miles
Distance to incorporated municipal boundaries or a defined municipal freshwater well field	> 5 Miles
Distance to a wetland	500 Feet to 1000 Feet
Distance to a subsurface mine	> 5 Miles
Distance to an (non-karst) unstable area	> 5 Miles
Risk of the Site being in a karst geology	Low
Distance to a 100-year floodplain	> 5 Miles
Did the release impact areas not on an exploration, development, production, or storage site	Yes

## Receptors

Tetra Tech conducted site characterization at the release location. It did not identify any watercourses, sinkholes, playas, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.29.11 New Mexico Administrative Code (NMAC). Based on a review of the NMOCD Mapper, the site is in an area of low karst potential, as shown in **Attachment 1**.

## Depth to Groundwater

On May 1, 2025, H&R Enterprises (H&R) mobilized to the Maverick Permian, LLC Vacuum Abo Unit #3 Remediation Site and advanced an exploratory Depth-To-Water (DTW) boring on behalf of Maverick to 55 feet bgs at Longitude: 32.7822°, -103.4648°, approximately 0.24 miles north of the release location. The DTW boring identified as L-15883 POD 1 was dry and did not indicate groundwater in the upper 55 feet, verifying that groundwater is below 55 feet bgs at the Site. Thus, the well was plugged in accordance with NMOES guidelines. The well permit and well plugging plan documents are included in **Attachment 1**.

## Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as having Kimbrough-Lea complex, dry, 0 to 3 percent slopes, which is classified as a loam with a published soil profile of fine gravelly loam from the surface to 0.25 feet bgs, loam from 0.25 to 0.83 feet bgs, and cemented material 0.83 to 6.67 feet bgs. The USDA NCRS Soil Map and soil profile are provided in **Attachment 1**.

## Wetlands

Readily available data were reviewed to determine the Site's status regarding wetland designation or potential wetland presence. The U.S Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) Wetlands Interactive Mapper and the New Mexico OpenEnviroMap were queried to determine if any potential wetlands are mapped near the remediation location. Based on the NWI and OpenEnviroMap review, the Site is not identified as having a mapped wetland within 300 feet of the Site.

Reclamation Report and Closure Request  
 Vacuum ABO 2 Injection Header Release  
 Incident ID# nAPP2321460560

Maverick Permian, LLC  
 February 26, 2026

## Cultural Resources Survey

The release site lies within 100 feet of an active lease road running north-south and at the intersection of east-west pipelines that have been previously heavily disturbed. Additionally, the remediation area was confined to the active adjacent pad and previously disturbed areas, and out of an abundance of caution, an archaeological survey was conducted of the entire area during the remedial activity described below. No cultural properties were identified, and no subsurface cultural materials were encountered during remediation. The survey is provided in **Attachment 3**.

## Biologically Sensitive Areas

Readily available data were reviewed to determine if the Site lies within biologically sensitive areas. The U.S Fish and Wildlife Services (USFWS) Information for Planning and Consultation (IPaC) and the New Mexico Department of Game and Fish (NMDGF) Environmental Review Tool (ERT) were queried to determine if sensitive wildlife or plant areas are present at the Site. The Site is not identified within biologically sensitive areas where remediation would impact sensitive wildlife or plant habitats and can be referenced in **Attachment 6**.

## REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data were used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chloride in soil.

Based on the site characterization, established depth to groundwater, and in accordance with Table 1 of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

### Closure Criteria for Soils Impacted by a Release

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (DRO+ORO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the New Mexico Oil Conservation District (NMOCD) guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) are as follows:

### Reclamation Requirements

Constituent	Remediation RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Reclamation Report and Closure Request  
Vacuum ABO 2 Injection Header Release  
Incident ID# nAPP2321460560

Maverick Permian, LLC  
February 26, 2026

## INITIAL RESPONSE ACTIVITIES

The release occurred due to a rupture of an injection header trunk line, releasing produced water onto the well pad and surrounding pastureland, affecting an area of approximately 2,950 square feet. Site records indicate that no fluids were recoverable during Maverick's initial response activities. The approximate release area is shown in **Figure 3**.

## ARCHEOLOGICAL SURVEY

To comply with 1.10.15 NMAC and New Mexico State Land Office (NMSLO) requirements, Tetra Tech conducted an Archeological Survey for the Site under New Mexico Cultural Resources Information System (NMCRIS) Activity 156721. The Archeological Survey findings under NMCRIS Activity Number were reported as Negative – No further archaeological review is required for the project area within NMSLO-managed lands on and surrounding the Vacuum ABO 2 Injection Header remediation project site on lease number B021310000. No subsurface cultural materials were encountered during remediation activities. The NMSLO Cultural Resource Cover Sheet is provided in **Attachment 3**.

## REMEDICATION AND CONFIRMATION SAMPLING

Excavation activities commenced on January 16, 2025, and concluded on January 17, 2025. Maverick's subcontractor, SDR Enterprises, LLC (SDR), used heavy equipment to excavate impacted soil from the remediation area to a maximum depth of four (4) feet bgs. To avoid potential contact between heavy equipment and pressurized lines within the remediation area, heavy equipment was maintained at least 2 feet away from pressurized lines during hydro-excavation and hand-digging.

SDR excavated 348 cubic yards of contaminated soil from an approximately 2,050-square-foot area and transported it to R360 for offsite disposal. Photographs of the final excavation are provided in **Attachment 4**.

## Confirmation Sampling Notification

On January 9, 2025, Tetra Tech notified the NMOCD of the anticipated initial confirmation sampling through the submission of a C-141N Sampling Notification submission in the NMOCD Permitting portal and provided subsequent C-141N Sampling Notification submissions through the NMOCD Permitting portal up to and including final confirmation sampling at the Site performed on January 17, 2025. Sampling notification was conducted in accordance with 19.15.29.12(D)(1)(a) NMAC and the Energy, Minerals and Natural Resources Department (EMNRD) *Notice Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions* dated December 1, 2023. Sample notifications are available in the NMOCD Portal under Incident ID nAPP2321460560.

## Confirmation Sampling

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 15 final confirmation samples including 8 five-point composite floor samples and 7 five-point composite side wall samples from the excavated areas. The remediation excavation concluded as a 4-foot-deep excavation with an approximately 2,050 square-foot base and 1,540 square feet of sidewall for a total area of 3,590 square feet, from which 15 confirmation samples were collected for a sampling density of approximately one sample per 239 square feet.

Reclamation Report and Closure Request  
Vacuum ABO 2 Injection Header Release  
Incident ID# nAPP2321460560

Maverick Permian, LLC  
February 26, 2026

Samples were submitted to Cardinal Laboratory in Hobbs, New Mexico, for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B. Laboratory analytical results for final confirmation samples reported concentrations of BTEX, TPH, and chloride as less than the respective Reclamation Requirements or RRALs, as applicable in the excavated area, demonstrating clean margins. Shallow confirmation sample laboratory analytical results screened against Reclamation Requirements are summarized in **Table 1**, and Deep confirmation sample laboratory analytical results screened against RRALs are summarized in **Table 2**. Laboratory analytical data packages, including chain-of-custody documentation, remediation confirmation, and sampling, are included in **Attachment 2**. Confirmation sampling locations and excavation extents are shown in **Figure 4**.

### Excavation Backfill

On January 21, 2025, after receiving confirmation of the sample results, SDR completed backfilling the excavated area with 18 cubic yards of clean topsoil and 324 cubic yards of caliche sourced from the nearby King Road Pit.

### CONCLUSION

Based on the confirmation sampling results, the impacted soil within the release footprint with concentrations greater than RRALs or Reclamation Requirements, as appropriate, has been removed and properly disposed of offsite, the excavated area has been backfilled with clean material, and the surface of the well pad has been restored; therefore, Site remediation is complete. Reclamation and revegetation will be conducted at the end-of-life of the Vacuum Abo 2. Please email Chris Straub at [chris.straub@tetrattech.com](mailto:chris.straub@tetrattech.com) or by phone at (737) 397-6243.

Sincerely,



Nick Hart  
Environmental Scientist  
Tetra Tech, Inc.



Chris Straub  
Program Manager  
Tetra Tech, Inc.

cc: Bryce Wagoner, Maverick Permian, LLC  
New Mexico State Land Office

Reclamation Report and Closure Request  
Vacuum ABO 2 Injection Header Release  
Incident ID# nAPP2321460560

Maverick Permian, LLC  
February 26, 2026

## LIST OF ATTACHMENTS

### Figures

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment Map
- Figure 4 – Excavation Extents and Confirmation Sample Locations Map

### Tables

- Table 1 – Summary of Analytical Results – Shallow Confirmation Sampling
- Table 2 – Summary of Analytical Results – Deep Confirmation Sampling

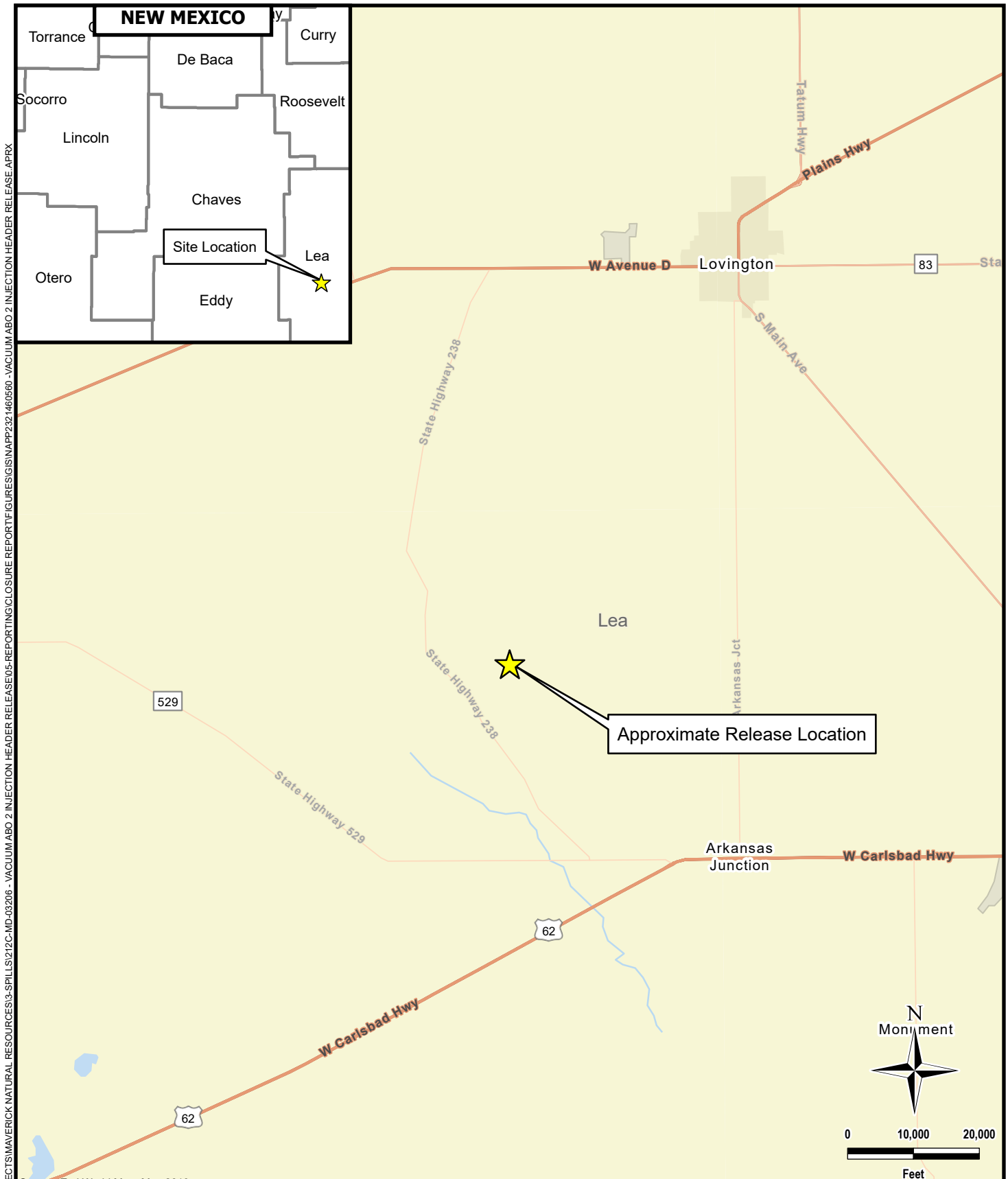
### Attachments

- Attachment 1 – Site Characterization Data
- Attachment 2 – Laboratory Analytical Data
- Attachment 3 – ARMS Survey and CPP Survey
- Attachment 4 – Photographic Documentation
- Attachment 5 – Seed Mixture
  
- Attachment 6 – Biological Compliance Review

Remediation Report and Closure Request  
Vacuum ABO 2 Injection Header Release  
Incident ID# nAPP2321460560

Maverick Permian, LLC  
February 26, 2026

## FIGURES



Source: Esri World Map, May 2019.

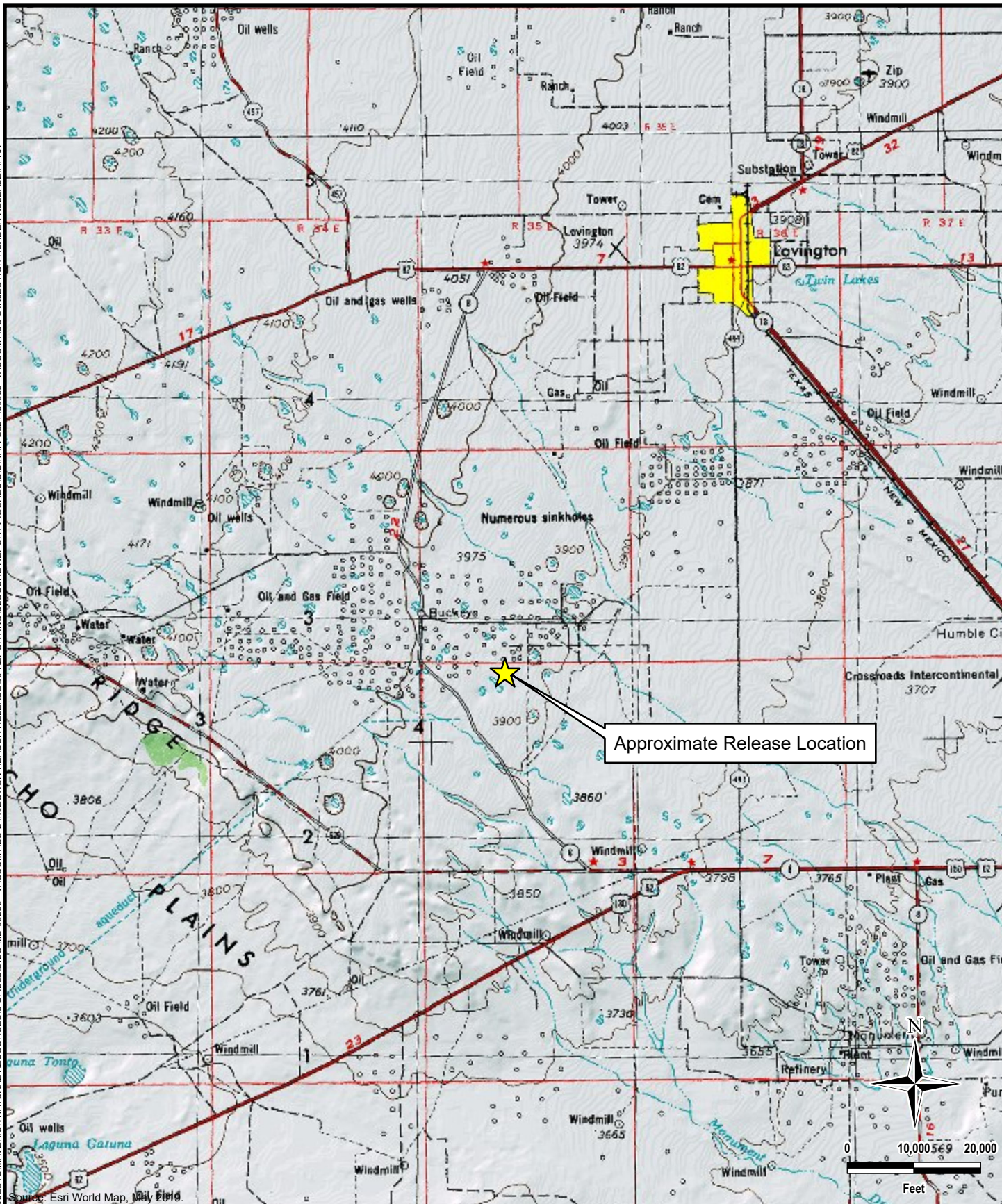
**MAVERICK**  
NATURAL RESOURCES

**TETRA TECH**

**SITE LOCATION MAP**  
 nAPP2321460560  
 VACUUM ABO 2 INJECTION HEADER RELEASE  
 (32.778583°, -103.463601°)  
 LEA COUNTY, NEW MEXICO

Figure No. <b>1</b>
PROJECT NO.: 212C-MD-03206
DATE: 4/9/2025
DESIGNED BY: ACP

DOCUMENT PATH: S:\NEW PROJECTS\MAVERICK NATURAL RESOURCES\3-SPILLS\212C-MD-03206 - VACUUM ABO 2 INJECTION HEADER RELEASE\REPORT\FIGURES\GIS\NAPP2321460560 - VACUUM ABO 2 INJECTION HEADER RELEASE.APRX



Approximate Release Location

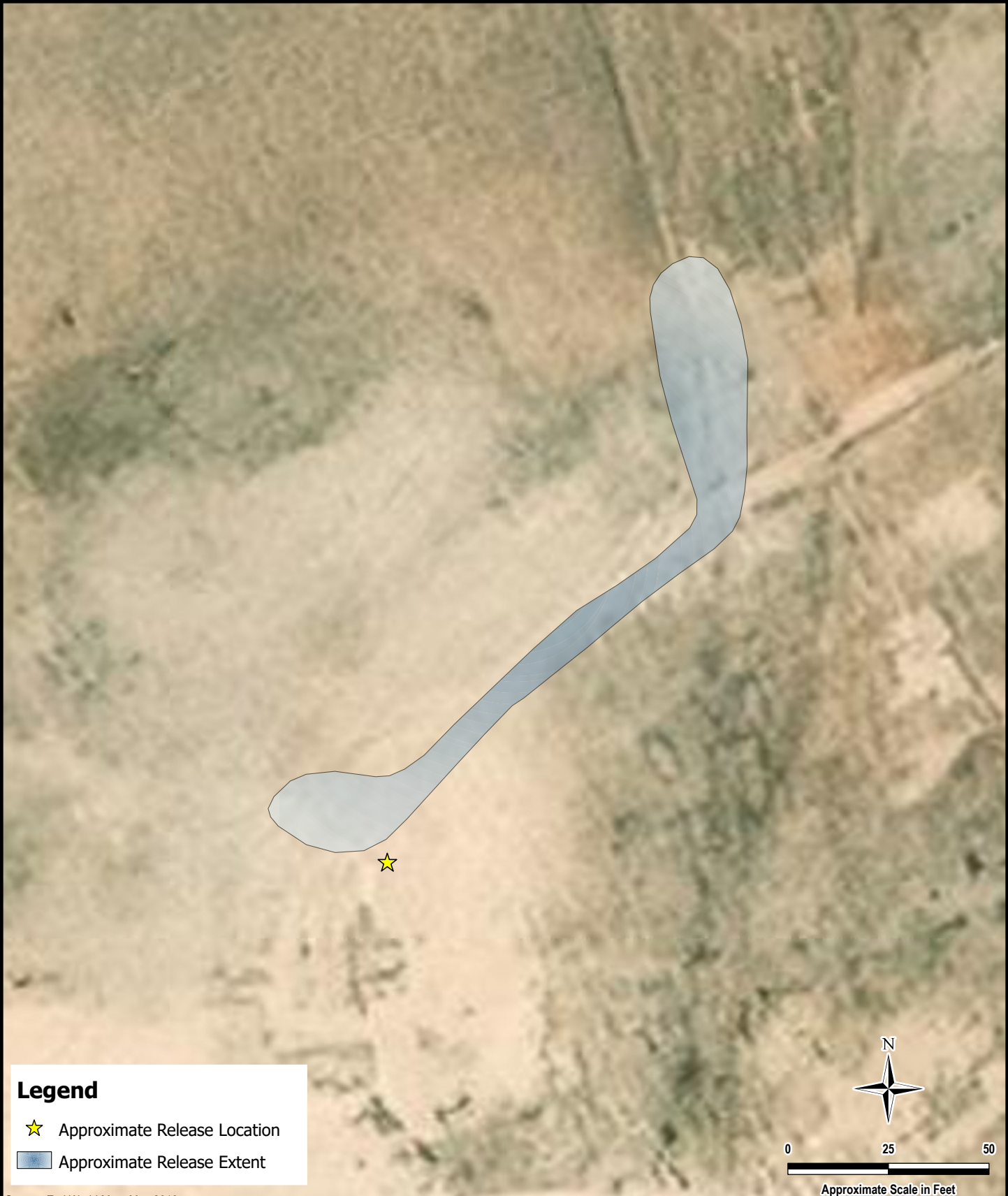
**MAVERICK**  
NATURAL RESOURCES

**TETRA TECH**



**TOPOGRAPHIC MAP**  
nAPP2321460560  
VACUUM ABO 2 INJECTION HEADER RELEASE  
(32.778583°, -103.463601°)  
LEA COUNTY, NEW MEXICO

Figure No.	<b>2</b>
PROJECT NO.:	212C-MD-03206
DATE:	4/9/2025
DESIGNED BY:	ACP

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**Legend**

-  Approximate Release Location
-  Approximate Release Extent

Source: Esri World Map, May 2019.



**RELEASE EXTENT AND SITE ASSESSMENT**

nAPP2321460560  
 VACUUM ABO 2 INJECTION HEADER RELEASE  
 (32.778583°, -103.463601°)  
 LEA COUNTY, NEW MEXICO

Figure No.

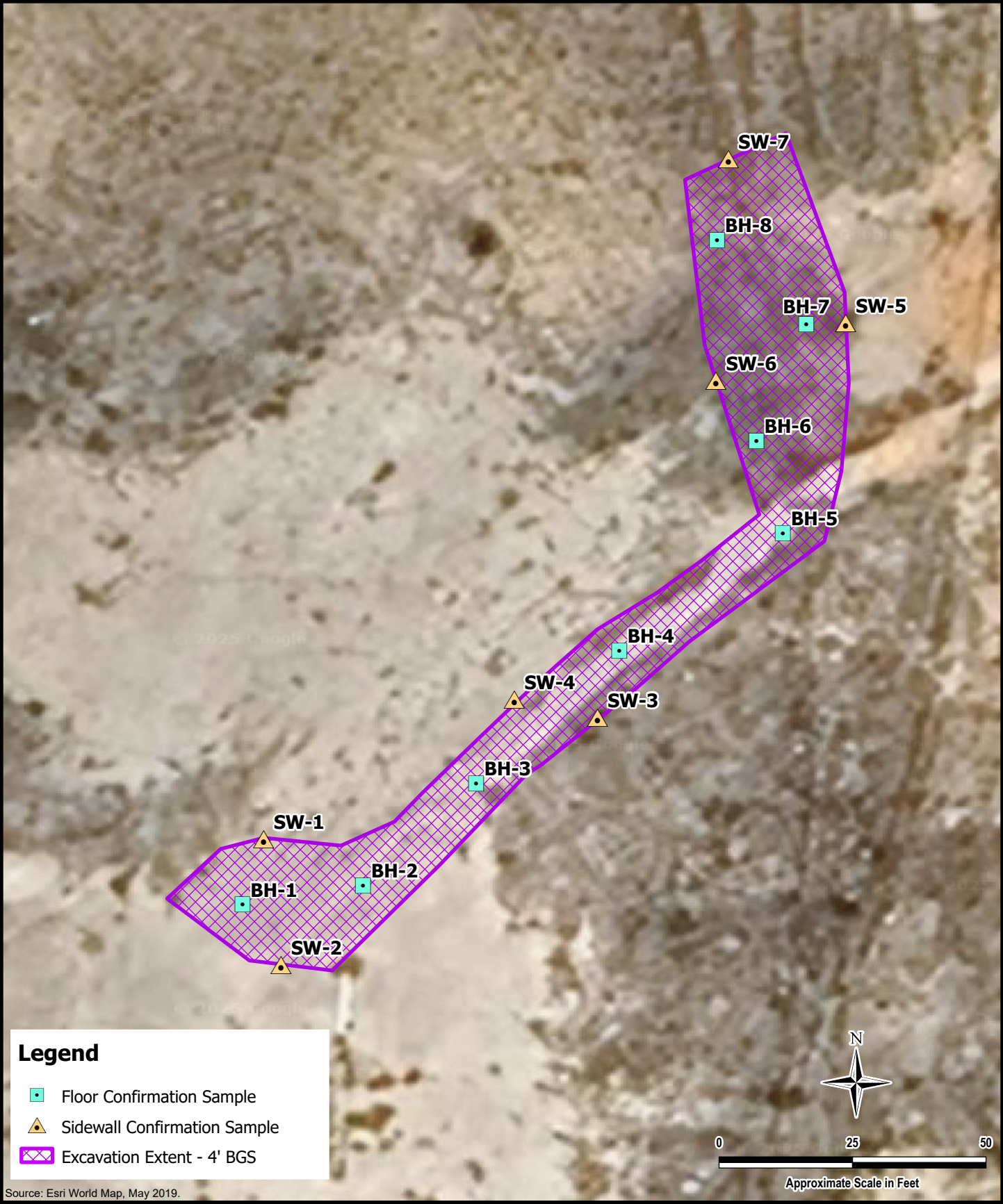
**3**

PROJECT NO.: 212C-MD-03206

DATE: 4/9/2025

DESIGNED BY: ACP

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**MAVERICK**  
NATURAL RESOURCES

**Tt** TETRA TECH

**REMEDATION EXTENT AND CONFIRMATION SAMPLING**  
nAPP2321460560  
VACUUM ABO 2 INJECTION HEADER RELEASE  
(32.778583°, -103.463601°)  
LEA COUNTY, NEW MEXICO

Figure No. <b>4</b>
PROJECT NO.: 212C-MD-03206
DATE: 4/9/2025
DESIGNED BY: ACP

Remediation Report and Closure Request  
Vacuum ABO 2 Injection Header Release  
Incident ID# nAPP2321460560

Maverick Permian, LLC  
February 26, 2026

## TABLES



**TABLE 1**  
**SUMMARY OF ANALYTICAL RESULTS**  
**SHALLOW SOIL CONFIRMATION SAMPLING - INCIDENT ID nAPP2321460560**  
**MAVERICK PERMIAN, LLC**  
**VACUUM ABO 2 INJECTION HEADER RELEASE**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth feet bgs	Chloride <sup>1</sup> mg/kg Q		BTEX <sup>2</sup>								TPH <sup>3</sup>								
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C <sub>6</sub> - C <sub>10</sub>		DRO > C <sub>10</sub> - C <sub>28</sub>		ORO > C <sub>28</sub> - C <sub>36</sub>		Total TPH (GRO+DRO+EXT DRO) mg/kg
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
<b>Reclamation Requirements (19.15.29 NMAC)</b>			<b>600</b>		<b>10</b>								<b>50</b>						<b>100</b>		
SW-1	1/16/2025	0.0 - 4.0	256		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-
SW-2	1/16/2025	0.0 - 4.0	240		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-
SW-3	1/17/2025	0.0 - 4.0	<16.0		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-
SW-4	1/17/2025	0.0 - 4.0	<16.0		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-
SW-5	1/16/2025	0.0 - 4.0	256		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-
SW-6	1/16/2025	0.0 - 4.0	208		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-
SW-7	1/16/2025	0.0 - 4.0	368		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-

**NOTES:**

bgs: Below ground surface      GRO: Gasoline Range Organics      1: Method 300.0  
 mg/kg: Milligrams per kilogram      DRO: Diesel Range Organics      2: Method 8021B  
 TPH: Total Petroleum Hydrocarbons      ORO: Oil Range Organics      3: Method 8015M

**Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).**



**TABLE 2  
SUMMARY OF ANALYTICAL RESULTS  
DEEP CONFIRMATION SAMPLING - INCIDENT ID NAPP2321460560  
MAVERICK PERMIAN, LLC  
VACUUM ABO 2 INJECTION HEADER RELEASE  
LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth feet bgs	Chloride <sup>1</sup> mg/kg Q		BTEX <sup>2</sup>								TPH <sup>3</sup>										
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C <sub>6</sub> - C <sub>10</sub>		DRO > C <sub>10</sub> - C <sub>28</sub>		EXT DRO > C <sub>28</sub> - C <sub>36</sub>		TPH GRO+DRO		Total TPH (GRO+DRO+EXT DRO) mg/kg
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
<b>RRALs (Table I 19.15.29.12 NMAC)</b>			<b>10,000</b>		<b>10</b>						<b>50</b>							<b>1,000</b>	<b>2,500</b>				
BH-1	1/17/2025	4.0 - 4.5	1,970		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-	-	
BH-2	1/17/2025	4.0 - 4.5	4,320		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-	-	
BH-3	1/16/2025	4.0 - 4.5	4,320		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-	-	
BH-4	1/16/2025	4.0 - 4.5	4,080		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-	-	
BH-5	1/16/2025	4.0 - 4.5	3,000		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-	-	
BH-6	1/16/2025	4.0 - 4.5	1,550		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-	-	
BH-7	1/16/2025	4.0 - 4.5	768		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-	-	
BH-8	1/16/2025	4.0 - 4.5	768		<0.050		<10.0		<0.050		<10.0		<10.0		<0.050		<0.300		<0.150		-	-	

**NOTES:**

bgs: Below ground surface  
 mg/kg: Milligrams per kilogram  
 TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics  
 DRO: Diesel Range Organics  
 ORO: Oil Range Organics

1: Method SM4500CI-B  
 2: Method 8021B  
 3: Method 8015M

**Bold and highlighted values indicate exceedance of Table I 19.15.29.12 NMAC.**

Remediation Report and Closure Request  
Vacuum ABO 2 Injection Header Release  
Incident ID# nAPP2321460560

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February 26, 2026

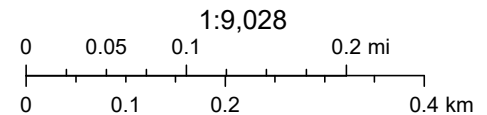
## **ATTACHMENT 1 – SITE CHARACTERIZATION DATA**

# Vacuum ABO 2 Injection Header Release OCD Well Locations



4/8/2025, 1:19:49 PM

- OSE Water PODs
- Injection, Plugged
- Oil, Plugged
- ▨ Oil and Gas Leases
- Wells - Large Scale
- Oil, Active
- ▨ Karst Occurrence Potential
- ▨ PLSS Second Division
- Injection, Active
- Oil, Cancelled
- ▨ Low
- ▨ PLSS First Division
- ▨ Oil and Gas Leasing Restrictions

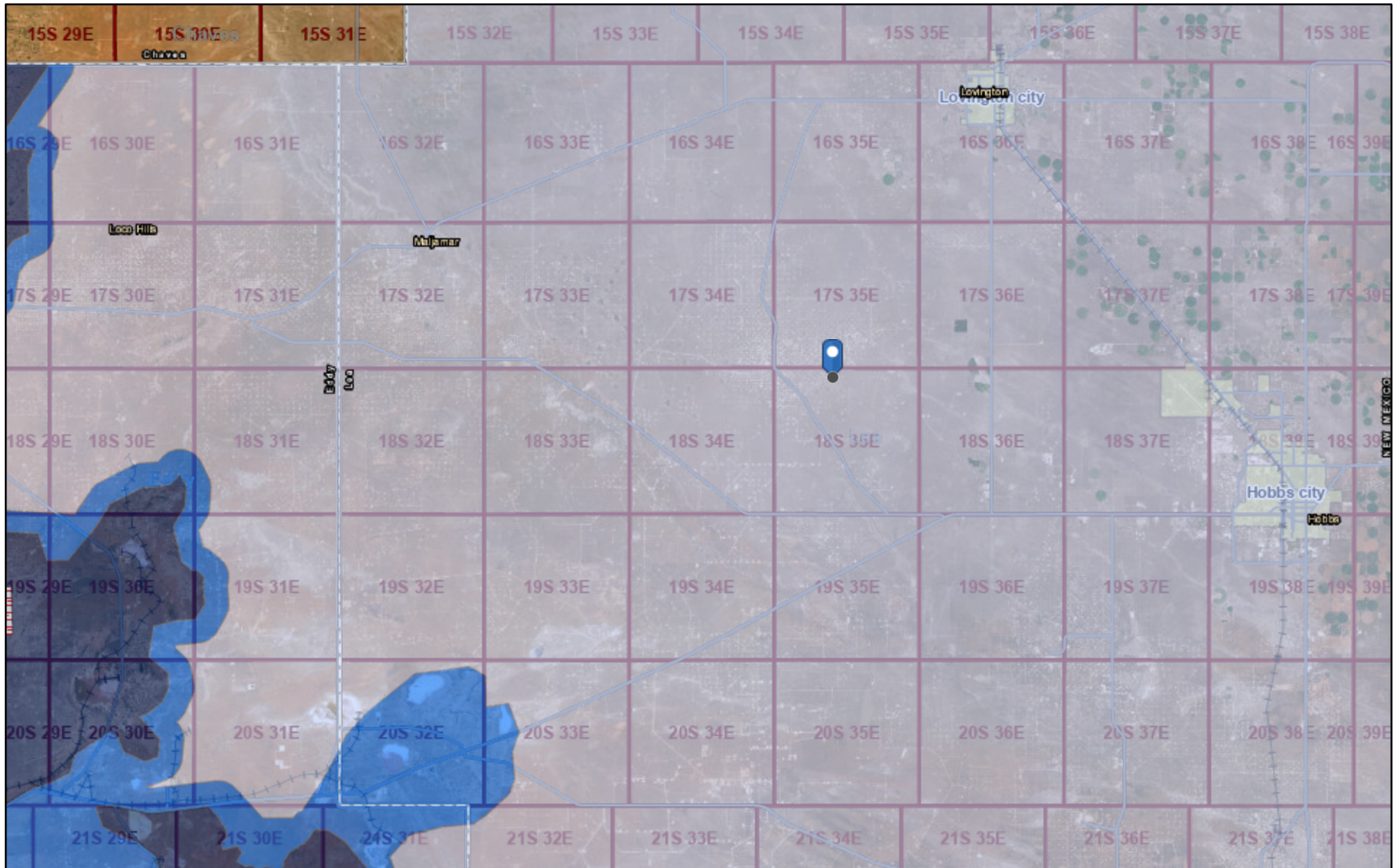


US Census Bureau, NMDOT, BLM, OCD, New Mexico Tech, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, HERE,

New Mexico Oil Conservation Division

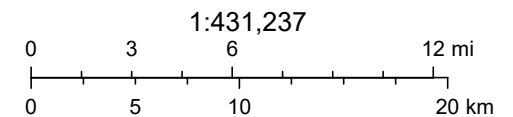
NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

# Vacuum ABO 2 Injection Header Release Karst



4/8/2025, 1:23:40 PM

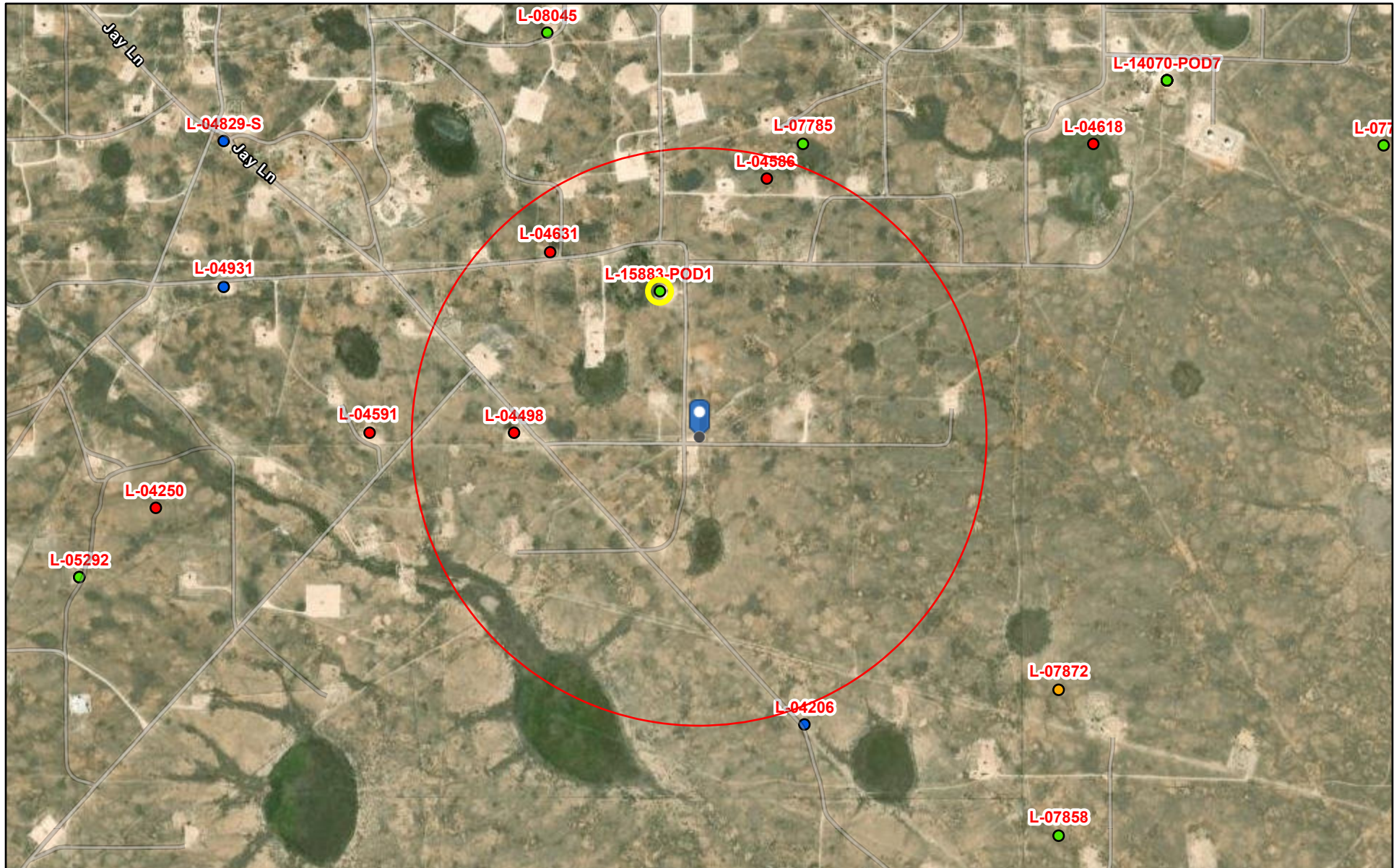
- |                                   |                              |                 |
|-----------------------------------|------------------------------|-----------------|
| <b>Karst Occurrence Potential</b> | Critical Karst Resource Area | NMDOT GPS ROADS |
| High                              | New Mexico Counties          | NMDOT Railroads |
| Medium                            | New Mexico Towns             | PLSS Townships  |
| Low                               |                              |                 |



US Census Bureau, NMDOT, BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Earthstar Geographics, BLM

New Mexico Oil Conservation Division

# Vacuum ABO 2 Injector Header OSE POD Location Map

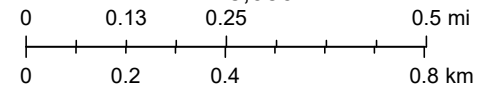


8/1/2025, 1:38:48 PM

GIS WATERS PODs

- Pending
- Plugged
- Active
- Capped
- 

1:18,056



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

Online web user

This is an unofficial map from the OSE's online application.



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)  
 (R=POD has been replaced, O=orphaned, C=the file is closed)  
 (quarters are smallest to largest)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	(meters)		(In feet)	
													Distance	Well Depth	Depth Water	Water Column
<a href="#">L 04498</a>		L	LE		SW	NW	04	18S	35E	643373.0	3627790.0 *		516	128	70	58
<a href="#">L 04631</a>		L	LE	NE	NW	NW	04	18S	35E	643465.0	3628292.0 *		661	140	60	80
<a href="#">L 04586</a>		L	LE	SW	SW	SE	33	17S	35E	644065.0	3628502.0 *		738	125	50	75

Average Depth to Water: **60 feet**

Minimum Depth: **50 feet**

Maximum Depth: **70 feet**

**Record Count: 3**

**UTM Filters (in meters):**

**Easting:** 643889.466

**Northing:** 3627785.090

**Radius:** 00800

\* UTM location was derived from PLSS - see Help

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



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
<a href="#">L 04498</a>		L	LE		SW	NW	04	18S	35E	643373.0	3627790.0 *	●	516	128	70	58
<a href="#">L 04631</a>		L	LE	NE	NW	NW	04	18S	35E	643465.0	3628292.0 *	●	661	140	60	80
<a href="#">L 04586</a>		L	LE	SW	SW	SE	33	17S	35E	644065.0	3628502.0 *	●	738	125	50	75
<a href="#">L 04206</a>		L	LE		SW	SE	04	18S	35E	644194.0	3626992.0 *	●	849	125	50	75
<a href="#">L 04591</a>		L	LE		SE	NE	05	18S	35E	642970.0	3627785.0 *	●	919	130	75	55
<a href="#">L 07872</a>		L	LE	NW	SW	SW	03	18S	35E	644900.0	3627101.0 *	●	1220	162	62	100
<a href="#">L 04880</a>		L	LE		NE	SW	33	17S	35E	643757.0	3629002.0 *	●	1224	145	90	55
<a href="#">L 04618</a>		L	LE		SW	SW	34	17S	35E	644973.0	3628611.0 *	●	1362	128	55	73
<a href="#">L 04931</a>		L	LE		NW	NE	05	18S	35E	642561.0	3628183.0 *	●	1386	237	70	167
<a href="#">L 04633</a>		L	LE		NE	SE	33	17S	35E	644564.0	3629010.0 *	●	1398	130	65	65
<a href="#">L 04578</a>		L	LE				33	17S	35E	643962.0	3629198.0 *	●	1414	126	60	66
<a href="#">L 05834 POD5</a>		L	LE	NE	NE	SE	33	17S	35E	644751.9	3629029.3	●	1513	234	65	169
<a href="#">L 04250</a>		L	LE				05	18S	35E	642378.0	3627565.0 *	●	1527	112	60	52
<a href="#">L 05834</a>	R	L	LE	NE	NE	SE	33	17S	35E	644663.0	3629109.0 *	●	1533	160	70	90
<a href="#">L 04829 S</a>		L	LE		SW	SE	32	17S	35E	642554.0	3628586.0 *	●	1557	198	85	113

Average Depth to Water: **65 feet**

Minimum Depth: **50 feet**

Maximum Depth: **90 feet**

**Record Count:** 15

**UTM Filters (in meters):**

**Easting:** 643889.466

**Northing:** 3627785.090

**Radius:** 01600

\* UTM location was derived from PLSS - see Help

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

File No. **L-15883 POOI**

**NEW MEXICO OFFICE OF THE STATE ENGINEER**



**WR-07 APPLICATION FOR PERMIT TO DRILL**

**A WELL WITH NO WATER RIGHT**

(check applicable boxes):

For fees, see State Engineer website: <https://www.ose.nm.gov/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe): Groundwater determination
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

\*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Angled/Directional borehole - include schematic and azimuth, inclination, measured depth and true vertical depth.
---	---

<input checked="" type="checkbox"/> Temporary Request - Requested Start Date: 4/14/25	Requested End Date: 4/14/26
---	-----------------------------

Plugging Plan of Operations Submitted?  Yes  No

Note: if there is known artesian conditions, contamination or high mineral content at the drilling location, include the borehole log or a well log from an existing well at that location. If this information is not submitted, check box and attach form WD-09 to this form.

**1. APPLICANT(S)**

Name: Maverick Permian LLC	Name: James Hawley/H&R Enterprises, LLC
Contact or Agent: Bryce Wagoner check here if Agent <input type="checkbox"/>	Contact or Agent: James Hawley check here if Agent <input checked="" type="checkbox"/>
Mailing Address: 1000 Main St Ste 2900	Mailing Address: PO 3641
City: Houston	City: Hobbs
State: TX      Zip Code: 77002	State: NM      Zip Code: 88241
Phone: (928) 241-1862 Phone (Work): <input type="checkbox"/> Home <input type="checkbox"/> Cell	Phone: (575) 605-3471 Phone (Work): <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell
E-mail (optional): bryce.wagoner@mavresources.com	E-mail (optional): jhawley@h-r-enterprises.com

OSE DII ROSWELL NM  
23 APR '25 PM 1:44

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 10/02/2024

File No.: <b>L-15883 POOI</b>	Trm. No.: <b>784427</b>	Receipt No.: <b>2-47908</b>
Trans Description (optional): <b>MON</b>		
Sub-Basin: <b>L</b>	PCW/LOG Due Date: <b>05/01/2026</b>	

2. WELL(S) Describe the well(s) applicable to this application.

**Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84). District II (Roswell), District V (Aztec) and District VII (Cimarron) customers, provide a PLSS location in addition to above.**

NM State Plane (NAD83) (Feet)     
  UTM (NAD83) (Meters)     
  Lat/Long (WGS84) (to the nearest 1/10<sup>th</sup> of second)

NM West Zone     
  Zone 12N  
 NM East Zone     
  Zone 13N  
 NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	-Public Land Survey System (PLSS) (QQQSection, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name	Well Depth in feet	Casing Diameter (OD)
L-15883 POD1	-103.464775	32.782217	UL-C S-4 T-18S R-35E	55'	2"

**NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)**

Additional well descriptions are attached:  Yes  No      If yes, how many \_\_\_\_\_

Other description relating well to common landmarks, streets, or other:  
SE of Buckeye

Well is on land owned by: NMSLO

**Well Information: NOTE: If casings telescope or involve nested casing, please provide diagram. Attached?**  Yes  No

Approximate depth to water (feet): Uknown	Outside diameter of well casing (inches): 2' (Temporary)
Driller Name: James Hawley	Driller License Number: WD-1862

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

One exploratory borehole will be advanced to determine depth of groundwater at the Maverick Permian LLC Vacuum Abo Unit #3 Remediation site. The borehole will be advanced until groundwater is reached or to a maximum depth of 55' BGS, two inch casing will be installed into the borehole and left for 72 hours. After casing is gauged, it will be pulled and the borehole will be plugged pursuant to NMOSE guidelines. No pump will be installed.

OSE DII ROSWELL NM  
23 APR '25 PM 1:44

FOR OSE INTERNAL USE      Application for Permit, Form WR-07 Version 10/02/2024

File No.: L-15883 POD1	Trm No.: 784427
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**4. SPECIFIC REQUIREMENTS:** The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

<p><b>Exploratory*:</b> Is proposed well a future public water supply well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO If Yes, an application must be filed with NMED-DWB, concurrently. <input checked="" type="checkbox"/> Include a description of any proposed pump test, if applicable.</p> <p><b>Monitoring*:</b> <input checked="" type="checkbox"/> Include the reason for the monitoring well, and, <input checked="" type="checkbox"/> The duration of the planned monitoring.</p>	<p><b>Pollution Control and/or Recovery:</b> <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p><b>Construction De-Watering:</b> <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p> <p><b>Ground Source Heat Pump:</b> <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p><b>Mine De-Watering:</b> <input type="checkbox"/> Include a plan for Mine De-Watering, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>
---	---	--	---

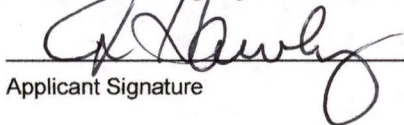
(\* if exploration or monitoring drilling activity is required by NMED, then you must also submit the NMED Work Plan)

**ACKNOWLEDGEMENT**

I, **We (name of applicant(s)), James Hawley**

Print Name(s)

affirm that the foregoing statements are true to the best of (my,our) knowledge and belief.

  
Applicant Signature

Applicant Signature

**ACTION OF THE STATE ENGINEER**

This application is:

approved  partially approved  denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 1st day of May 20 25, for the State Engineer,

Elizabeth K. Anderson, P.E., State Engineer

OSE DII ROSWELL NM  
23 APR '25 PM 1:43

By: K. Parekh  
Signature

Kashyap Parekh  
Print

Title: Water Resources Manager I  
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07 Version 10/02/2024

File No.: L-15883 P001 Trn No.: 784427

NEW MEXICO STATE ENGINEER OFFICE  
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1B Depth of the well shall not exceed the thickness of the Ogallala formation.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: L-15883 POD1

File Number: L 15883

Trn Number: 784427

NEW MEXICO STATE ENGINEER OFFICE  
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.  
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: L-15883 POD1

File Number: L 15883

Trn Number: 784427

NEW MEXICO STATE ENGINEER OFFICE  
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion L 15883 POD1 must be completed and the Well Log filed on or before 05/01/2026.

All wells shall be constructed to prevent contaminants from entering the hole from land surface by sealing the annular space around the outermost casing.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:  
Formal Application Rcvd: 04/23/2025 Pub. of Notice Ordered:  
Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 01 day of May A.D., 2025

Elizabeth K. Anderson, P.E., State Engineer

By: K. Parekh  
KASHYAP PAREKH

L 3



### NEW MEXICO OFFICE OF THE STATE ENGINEER

1:1,128

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5/1/2025



Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately interprets the source data used in their preparation; however, a degree of error is inherent in all maps, and these maps may contain omissions and errors in scale, resolution, rectification, positional accuracy, development methodology, interpretation of source data, and other circumstances. These maps are distributed "as is" without warranty of any kind.

#### Coordinates

##### UTM - NAD 83 (m) - Zone 13

Easting: 643773.659

Northing: 3628186.406

##### State Plane - NAD 83 (f) - Zone E

Easting: 808276.465

Northing: 649396.328

##### Degrees Minutes Seconds

Latitude: 32 : 46 : 55.981200

Longitude: -103 : 27 : 53.190000

#### Spatial Information

Land Grant: Not in

County: Lea

Groundwater Basin: Lea County

Abstract Area:

Lea County

##### Regulation Area:

Carlsbad/Capitan/Lea Closure

##### PLSS Description

NW SE NE NW Qtr of Sec 4 of 18S 35E

Derived from Projected PLSS- Qtr Sec. locations are calculated and are only approximations

#### Parcel Information

UPC/DocNum:

Parcel Owner:

Address:null null null

Legal:

#### POD Information

Owner:

File Number:

POD Status: NoData

Permit Status: NoData

Permit Use: NoData

Purpose:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Elizabeth K. Anderson, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

**STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 784427  
File Nbr: L 15883

May. 01, 2025

MAVERICK PERMIAN, LLC  
JAMES HAWLEY  
PO BOX 3641  
HOBBS, NM 88241

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- \* If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- \* If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- \* The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- \* You, the permittee, are required to email nm.driller@ose.nm.gov with the following information when the driller is enroute to the drilling site: OSE Permit number, POD number, physical address, driller company and license number, and date/time driller is to be on site.
- \* This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website [www.ose.nm.gov](http://www.ose.nm.gov).

Sincerely,

A handwritten signature in blue ink that reads "Guadalupe Castro".

Guadalupe Castro  
(575) 622-6521

Enclosure



Stephanie Garcia Richard  
COMMISSIONER

State of New Mexico  
Commissioner of Public Lands

310 OLD SANTA FE TRAIL  
P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S  
OFFICE

Phone (505) 827-5760  
Fax (505) 827-5766  
www.nmstatelands.org

April 17, 2025

New Mexico Office of the State Engineer  
District II  
1900 West Second Street  
Roswell, New Mexico 88201

**Re: Maverick Permian LLC Application for Borehole**

To Whom it May Concern:

The State Land Office has authorized Maverick Permian LLC to drill one bore hole in the following location:

NENW Section 04 Township 18S Range 35E; 32.7822876, -103.4644852

This activity is authorized under State Land Office Lease #B021310000 to determine the depth of groundwater for the remediation project associated with NMOCD Plug and Abandonment of well.

Before processing, please email me a copy of the application submitted to your office so that I can verify that the information provided to you is consistent with the activity that the State Land Office has approved.

Sincerely,

*Deon David*

Deon David  
Environmental Specialist  
SRD-Environmental Compliance Office (ECO)  
New Mexico State Land Office  
ddavid@nmslo.gov

OSE DII ROSWELL NM  
23 APR '25 PM1:44



# WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

**Alert!** Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology [geoinfo.nmt.edu/resources/water/cgma/](http://geoinfo.nmt.edu/resources/water/cgma/) if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email [nmbg-waterlevels@amt.edu](mailto:nmbg-waterlevels@amt.edu), prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

**I. FILING FEE:** There is no filing fee for this form.

**II. GENERAL / WELL OWNERSHIP:**  Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: L-15883-P001

Name of well owner: Maverick Permian LLC

Mailing address: 1000 Main St. Ste 2900 County: \_\_\_\_\_

City: Houston State: TX Zip code: 77002

Phone number: 928-241-1862 E-mail: bryce.wagoner@mavresources.com

**III. WELL DRILLER INFORMATION:**

Well Driller contracted to provide plugging services: James Hawley/H&R Enterprises, LLC.

New Mexico Well Driller License No.: WD-1862 Expiration Date: June 16, 2025

**IV. WELL INFORMATION:**  Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 46 min, 56.22 sec  
Longitude: 103 deg, 27 min, 53.37 sec, NAD 83

2) Reason(s) for plugging well(s):

Temporary well to determine depth of groundwater at remediation site. USE DII ROSWELL NM  
23 APR '25 PM 1:45

3) Was well used for any type of monitoring program? no If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? no If yes, provide additional detail, including analytical results and/or laboratory report(s): \_\_\_\_\_

5) Static water level: unknown feet below land surface / feet above land surface (circle one)

6) Depth of the well: 55 feet

- 7) Inside diameter of innermost casing: 2 inches.
- 8) Casing material: PVC
- 9) The well was constructed with:
  - an open-hole production interval, state the open interval: \_\_\_\_\_
  - a well screen or perforated pipe, state the screened interval(s): 10ft
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? N/A
- 11) Was the well built with surface casing? no If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? \_\_\_\_\_ If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

**V. DESCRIPTION OF PLANNED WELL PLUGGING:**  If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:  

We anticipate this to be a dry hole, drill cuttings to 10'BGS, hydrated bentonite chips from 10' BGS to surface.
- 2) Will well head be cut-off below land surface after plugging? N/A

**VI. PLUGGING AND SEALING MATERIALS:**

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 80.85
- 4) Type of Cement proposed: 3/8 bentonite hole plug
- 5) Proposed cement grout mix: \_\_\_\_\_ gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: \_\_\_\_\_ batch-mixed and delivered to the site  
   x mixed on site

OSE DII ROSWELL NM  
23 APR '25 PM 1:45

7) Grout additives requested, and percent by dry weight relative to cement:

N/A

8) Additional notes and calculations:

**VII. ADDITIONAL INFORMATION:** List additional information below, or on separate sheet(s):

[Empty box for additional information]

**VIII. SIGNATURE:**

I, James Hawley, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

*[Handwritten Signature]*

Signature of Applicant

4/14/25

Date

**IX. ACTION OF THE STATE ENGINEER:**

**DSE DII ROSWELL NM  
23 APR '25 PM1:45**

This Well Plugging Plan of Operations is:

- Approved subject to the attached conditions.
- Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 29<sup>th</sup> day of April, 2025

Elizabeth K. Anderson P.E.

\_\_\_\_\_, New Mexico State Engineer

By: K. Parekh  
Kashyap Parekh

Water Resources Manager I

WD-08 Well Plugging Plan  
Version: March 07, 2022  
Page 3 of 5



**TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.**

	<b>Interval 1 – deepest</b>	<b>Interval 2</b>	<b>Interval 3 – most shallow</b>
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			
Bottom of proposed interval of grout placement (ft bgl)			
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			<p>USE DIT ROSWELL NM 23 APR '25 PM 1:45</p>

**TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.**

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			0-10' hydrated bentonite chips
Bottom of proposed sealant or grout placement (ft bgl)			10'-55' drill cuttings
Theoretical volume of sealant required per interval (gallons)			80.85
Proposed abandonment sealant (manufacturer and trade name)			Baroid 3/8 hole plug

OSE DII ROSWELL NM  
23 APR '25 PM 1:45



**STATE OF NEW MEXICO**  
**OFFICE OF THE STATE ENGINEER**  
**ROSWELL**  
 1900 West Second St.  
 Roswell, New Mexico 88201  
 Phone: (575) 622-6521  
 Fax: (575) 623- 8559

Applicant has identified wells, listed below, to be plugged. James Hawley/H & R Enterprises LLC (WD-1862) will perform the plugging.

Permittee: Maverick Permian LLC  
 NMOSE Permit Number: L-15883-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
L-15883-POD1	6.0 (Soil Boring)	55.0	Unknown	32° 46' 56.22"	103° 27' 53.37"

**Specific Plugging Conditions of Approval for Well located in Lea County, New Mexico.**

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
2. **Groundwater encountered:** The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 80.75 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 55 feet.
3. **Dry Hole:** The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 14.68 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.
4. **Groundwater encountered:** Bentonite Pellets. The bentonite shall be hydrated separately and added above static water level, a minimum of 5-gallons of fresh water shall be added to the borehole per 50-lb of bentonite chips.
5. **Dry Hole:** (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet – Bentonite Pellets. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.





**STATE OF NEW MEXICO**  
**OFFICE OF THE STATE ENGINEER**  
DISTRICT II  
TELEPHONE: (575) 622-6521 FAX: (575) 623-8559

**ELIZABETH K. ANDERSON, P.E.**  
**STATE ENGINEER**

**1900 West Second Street**  
**Roswell, New Mexico 88201**

April 29, 2025

Maverick Permian LLC  
1000 Main Street, Suite 2900  
Houston, NM 77002


RE: Well Plugging Plan of Operations for well No. L-15883-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,




  
\_\_\_\_\_  
Kashyap Parekh  
Water Resources Manager I

# Vacuum ABO 2 Injection Header Release



April 8, 2025

### Wetlands

- |   |                                |   |                                   |   |          |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland       |  | Lake     |
|  | Estuarine and Marine Wetland   |  | Freshwater Forested/Shrub Wetland |  | Other    |
|   |                                |  | Freshwater Pond                   |  | Riverine |

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

# National Flood Hazard Layer FIRMette



103°28'8"W 32°46'58"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
		Area of Undetermined Flood Hazard <i>Zone D</i>
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



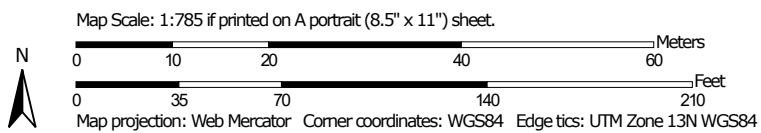
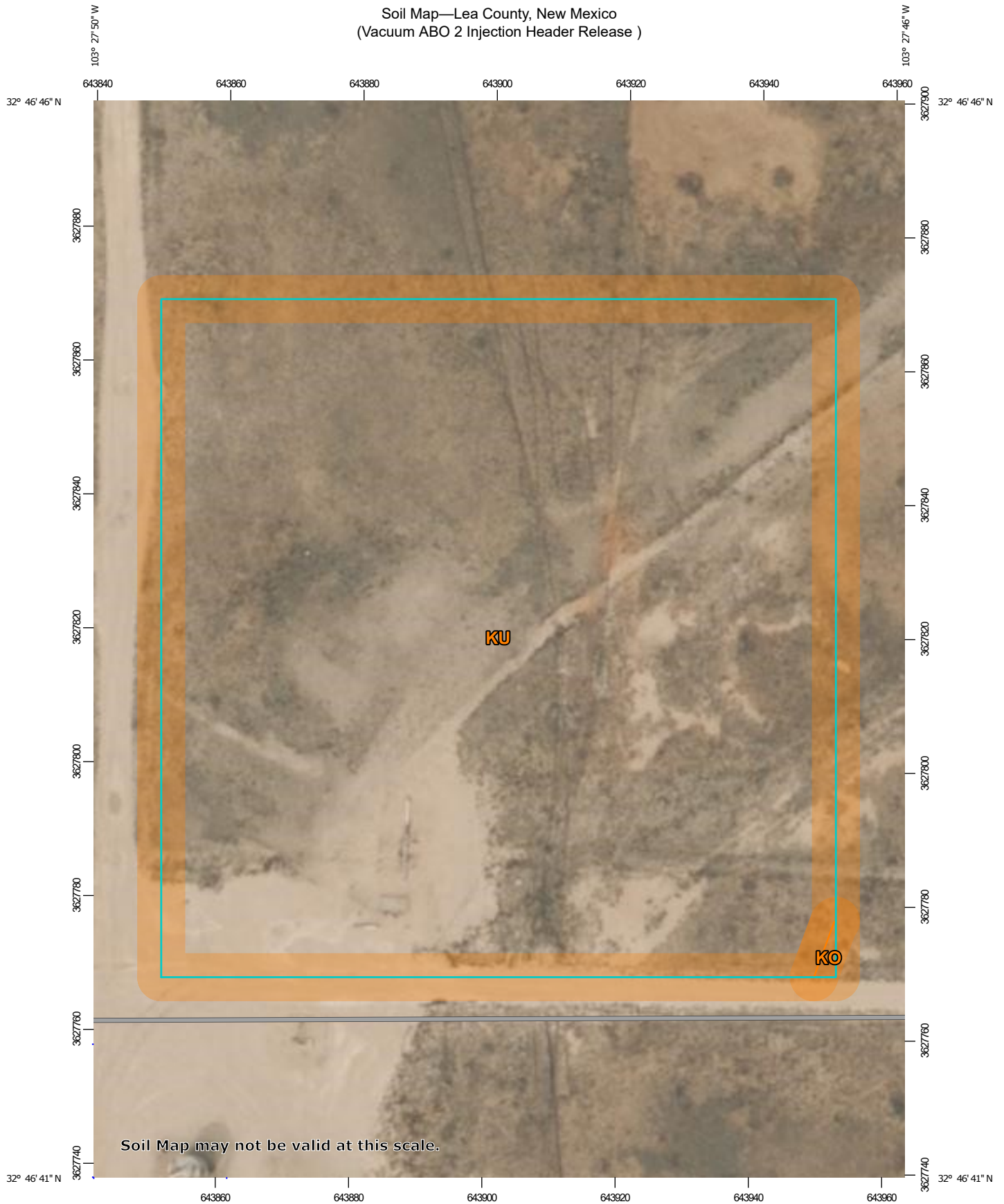
1:6,000 103°27'30"W 32°46'28"N

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/8/2025 at 5:58 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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


Soil Map—Lea County, New Mexico  
(Vacuum ABO 2 Injection Header Release )



Soil Map—Lea County, New Mexico  
(Vacuum ABO 2 Injection Header Release )

**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 21, Sep 3, 2024

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.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KO	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	0.0	0.1%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	2.5	99.9%
<b>Totals for Area of Interest</b>		<b>2.5</b>	<b>100.0%</b>

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

## Lea County, New Mexico

### KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tw46  
*Elevation:* 2,500 to 4,800 feet  
*Mean annual precipitation:* 14 to 16 inches  
*Mean annual air temperature:* 57 to 63 degrees F  
*Frost-free period:* 180 to 220 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Kimbrough and similar soils:* 45 percent  
*Lea and similar soils:* 25 percent  
*Minor components:* 30 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Kimbrough

##### Setting

*Landform:* Playa rims, plains  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Concave, linear  
*Parent material:* Loamy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 3 inches:* gravelly loam  
*Bw - 3 to 10 inches:* loam  
*Bkkm1 - 10 to 16 inches:* cemented material  
*Bkkm2 - 16 to 80 inches:* cemented material

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 4 to 18 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.01 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 95 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Very low (about 1.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: D*  
*Ecological site: R077DY049TX - Very Shallow 12-17" PZ*  
*Hydric soil rating: No*

## Description of Lea

### Setting

*Landform: Plains*  
*Down-slope shape: Convex*  
*Across-slope shape: Linear*  
*Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age*

### Typical profile

*A - 0 to 10 inches: loam*  
*Bk - 10 to 18 inches: loam*  
*Bkk - 18 to 26 inches: gravelly fine sandy loam*  
*Bkkm - 26 to 80 inches: cemented material*

### Properties and qualities

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: 22 to 30 inches to petrocalcic*  
*Drainage class: Well drained*  
*Runoff class: High*  
*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 90 percent*  
*Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 3.0*  
*Available water supply, 0 to 60 inches: Very low (about 2.9 inches)*

### Interpretive groups

*Land capability classification (irrigated): None specified*  
*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: D*  
*Ecological site: R077DY047TX - Sandy Loam 12-17" PZ*  
*Hydric soil rating: No*

## Minor Components

### Kenhill

*Percent of map unit: 12 percent*  
*Landform: Plains*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Ecological site: R077DY038TX - Clay Loam 12-17" PZ*  
*Hydric soil rating: No*

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

---

**Douro**

*Percent of map unit:* 12 percent

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* R077DY047TX - Sandy Loam 12-17" PZ

*Other vegetative classification:* Unnamed (G077DH000TX)

*Hydric soil rating:* No

**Spraberry**

*Percent of map unit:* 6 percent

*Landform:* Playa rims, plains

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ

*Other vegetative classification:* Unnamed (G077DH000TX)

*Hydric soil rating:* No

**Data Source Information**

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

Remediation Report and Closure Request  
Vacuum ABO 2 Injection Header Release  
Incident ID# nAPP2321460560

Maverick Permian, LLC  
February 26, 2026

## **ATTACHMENT 2 – LABORATORY ANALYTICAL DATA**



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

---

January 20, 2025

CHRIS STRAUB

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VACUUM ABO 2 INJECTION HEADER

Enclosed are the results of analyses for samples received by the laboratory on 01/16/25 13:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHRIS STRAUB  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/16/2025	Sampling Date:	01/16/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 3 ( 4' ) (H250274-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	01/17/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 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:**

TETRA TECH  
 CHRIS STRAUB  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/16/2025	Sampling Date:	01/16/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 4 ( 4' ) (H250274-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	1.61	80.6	2.00	0.171	
Toluene*	<0.050	0.050	01/17/2025	ND	1.73	86.3	2.00	0.182	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	1.70	85.0	2.00	0.0367	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	4.97	82.9	6.00	0.0196	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	01/17/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	168	84.2	200	0.990	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	161	80.7	200	2.16	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 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:**

TETRA TECH  
 CHRIS STRAUB  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/16/2025	Sampling Date:	01/16/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 5 ( 4' ) (H250274-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2025	ND	1.99	99.3	2.00	1.36		
Toluene*	<0.050	0.050	01/17/2025	ND	2.15	108	2.00	1.13		
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.23	111	2.00	1.29		
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.70	112	6.00	1.55		
Total BTEX	<0.300	0.300	01/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	01/17/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	192	96.2	200	6.23		
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	166	82.8	200	4.72		
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND						

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 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:**

TETRA TECH  
 CHRIS STRAUB  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/16/2025	Sampling Date:	01/16/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 6 ( 4' ) (H250274-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	1.99	99.3	2.00	1.36	
Toluene*	<0.050	0.050	01/17/2025	ND	2.15	108	2.00	1.13	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.23	111	2.00	1.29	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.70	112	6.00	1.55	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	01/17/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	192	96.2	200	6.23	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	166	82.8	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHRIS STRAUB  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/16/2025	Sampling Date:	01/16/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 7 ( 4' ) (H250274-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2025	ND	1.99	99.3	2.00	1.36		
Toluene*	<0.050	0.050	01/17/2025	ND	2.15	108	2.00	1.13		
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.23	111	2.00	1.29		
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.70	112	6.00	1.55		
Total BTEX	<0.300	0.300	01/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	01/17/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/17/2025	ND	192	96.2	200	6.23		
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	166	82.8	200	4.72		
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND						

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHRIS STRAUB  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/16/2025	Sampling Date:	01/16/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 8 ( 4' ) (H250274-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	1.99	99.3	2.00	1.36	
Toluene*	<0.050	0.050	01/17/2025	ND	2.15	108	2.00	1.13	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.23	111	2.00	1.29	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.70	112	6.00	1.55	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/17/2025	ND	448	112	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	01/17/2025	ND	192	96.2	200	6.23	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	166	82.8	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHRIS STRAUB  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/16/2025	Sampling Date:	01/16/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 1 (H250274-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	1.99	99.3	2.00	1.36	
Toluene*	<0.050	0.050	01/17/2025	ND	2.15	108	2.00	1.13	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.23	111	2.00	1.29	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.70	112	6.00	1.55	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/17/2025	ND	448	112	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	01/17/2025	ND	192	96.2	200	6.23	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	166	82.8	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHRIS STRAUB  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/16/2025	Sampling Date:	01/16/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 2 (H250274-08)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2025	ND	1.99	99.3	2.00	1.36		
Toluene*	<0.050	0.050	01/17/2025	ND	2.15	108	2.00	1.13		
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.23	111	2.00	1.29		
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.70	112	6.00	1.55		
Total BTEX	<0.300	0.300	01/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/17/2025	ND	448	112	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	01/17/2025	ND	192	96.2	200	6.23		
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	166	82.8	200	4.72		
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND						

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHRIS STRAUB  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/16/2025	Sampling Date:	01/16/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 5 (H250274-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2025	ND	1.99	99.3	2.00	1.36		
Toluene*	<0.050	0.050	01/17/2025	ND	2.15	108	2.00	1.13		
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.23	111	2.00	1.29		
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.70	112	6.00	1.55		
Total BTEX	<0.300	0.300	01/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/17/2025	ND	448	112	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	01/17/2025	ND	192	96.2	200	6.23		
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	166	82.8	200	4.72		
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND						

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHRIS STRAUB  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/16/2025	Sampling Date:	01/16/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 6 (H250274-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	1.99	99.3	2.00	1.36	
Toluene*	<0.050	0.050	01/17/2025	ND	2.15	108	2.00	1.13	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.23	111	2.00	1.29	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.70	112	6.00	1.55	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/17/2025	ND	448	112	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	01/17/2025	ND	192	96.2	200	6.23	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	166	82.8	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHRIS STRAUB  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/16/2025	Sampling Date:	01/16/2025
Reported:	01/20/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 7 (H250274-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2025	ND	1.99	99.3	2.00	1.36	
Toluene*	<0.050	0.050	01/17/2025	ND	2.15	108	2.00	1.13	
Ethylbenzene*	<0.050	0.050	01/17/2025	ND	2.23	111	2.00	1.29	
Total Xylenes*	<0.150	0.150	01/17/2025	ND	6.70	112	6.00	1.55	
Total BTEX	<0.300	0.300	01/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/17/2025	ND	448	112	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	01/17/2025	ND	192	96.2	200	6.23	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	166	82.8	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.6 % 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

Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Custody Record



# Tetra Tech, Inc.

901 W. Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Client Name: **Maverick Natural Resources**

Site Manager: **Chris Straub**

Project Name: **Vacuum ABO 2 Injection Header**

281-755-8965

[chris.straub@tetratech.com](mailto:chris.straub@tetratech.com)

Project Location: **Lea, County**

Invoice to: **Attn: Chuck Terhune**

Receiving Laboratory: **Cardinal Labs**

Sampler Signature: **Gustavo Cortez**

Comments:

LAB # **H250874**  
LAB USE ONLY  
SAMPLE IDENTIFICATION

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>		
1	BH-3 (4)	1/16/2025		X				X	
2	BH-4 (4)	1/16/2025		X				X	
3	BH-5 (4)	1/16/2025		X				X	
4	BH-6 (4)	1/16/2025		X				X	
5	BH-7 (4)	1/16/2025		X				X	
6	BH-8 (4)	1/16/2025		X				X	
7	SW-1	1/16/2025		X				X	
8	SW-2	1/16/2025		X				X	
9	SW-5	1/16/2025		X				X	
10	SW-6	1/16/2025		X				X	

Relinquished by: *[Signature]* Date: **1-16-25** Time: **1356**

Received by: *[Signature]* Date: **1-16-25** Time: **1350**

Relinquished by: Date: Time:

Received by: Date: Time:

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B	BTEX 8260B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)	
<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO)	
<input checked="" type="checkbox"/>	PAH 8270C	
<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg	
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
<input checked="" type="checkbox"/>	TCLP Volatiles	
<input checked="" type="checkbox"/>	TCLP Semi Volatiles	
<input checked="" type="checkbox"/>	RCI	
<input checked="" type="checkbox"/>	GC/MS Vol. 8260B / 624	
<input checked="" type="checkbox"/>	GC/MS Semi. Vol. 8270C/625	
<input checked="" type="checkbox"/>	PCB's 8082 / 608	
<input checked="" type="checkbox"/>	NORM	
<input checked="" type="checkbox"/>	PLM (Asbestos)	
<input checked="" type="checkbox"/>	Chloride	
<input checked="" type="checkbox"/>	Chloride Sulfate TDS	
<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)	
<input checked="" type="checkbox"/>	Anion/Cation Balance	
<input type="checkbox"/>	Hold	

**LAB USE ONLY**

Sample Temperature: **2.3°C**

REMARKS:

RUSH: Same Day 24 hr  48 hr  72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

17c-#140

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Custody Record



# Tetra Tech, Inc.

901 W. Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Client Name:

Maverick Natural Resources

Site Manager:

Chris Straub

Project Name:

Vacuum ABO 2 Injection Header

281-755-8965

Project #:

[chris.straub@tetratech.com](mailto:chris.straub@tetratech.com)

Project Location:  
(county, state)

Lea, County

Invoice to:

Attn: Chuck Terhune

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Gustavo Cortez

Comments:

LAB # **HS0674**  
(LAB USE ONLY)  
SAMPLE IDENTIFICATION

SW-7

DATE

TIME

1/16/2025

SAMPLING

MATRIX

PRESERVATIVE METHOD

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

# CONTAINERS

FILTERED (Y/N)

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Hold

ANALYSIS REQUEST  
(Circle or Specify Method No.)

- BTEX 8021B BTEX 8260B
- TPH TX1005 (Ext to C35)
- TPH 8015M (GRO - DRO - ORO)
- PAH 8270C
- Total Metals Ag As Ba Cd Cr Pb Se Hg
- TCLP Metals Ag As Ba Cd Cr Pb Se Hg
- TCLP Volatiles
- TCLP Semi Volatiles
- RCI
- GC/MS Vol. 8260B / 624
- GC/MS Semi. Vol. 8270C/625
- PCB's 8082 / 608
- NORM
- PLM (Asbestos)
- Chloride
- Chloride Sulfate TDS
- General Water Chemistry (see attached list)
- Anion/Cation Balance

Relinquished by: *[Signature]* Date: *1-16-25* Time: *1356*

Received by: *Steele Riquelme* Date: *1-16-25* Time: *1350*

Relinquished by: *[Signature]* Date: \_\_\_\_\_ Time: \_\_\_\_\_

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

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

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

LAB USE ONLY

REMARKS:

- RUSH: Same Day 24 hr
- Rush Changes Authorized
- Special Report Limits or TRRP Report

Sample Temperature  
*2-3:00*  
*6-00*  
*1-7: #140*

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:



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

---

January 21, 2025

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: VACUUM ABO 2 INJECTION HEADER

Enclosed are the results of analyses for samples received by the laboratory on 01/17/25 12:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03206	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 1 ( 4.0' ) (H250286-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2025	ND	1.97	98.6	2.00	8.96		
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81		
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03		
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50		
Total BTEX	<0.300	0.300	01/19/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1970	16.0	01/20/2025	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	01/17/2025	ND	208	104	200	5.74		
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	192	96.0	200	6.28		
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND						

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 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:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03206	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: BH - 2 ( 4.0' ) (H250286-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2025	ND	1.97	98.6	2.00	8.96	
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81	
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50	
Total BTEX	<0.300	0.300	01/19/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	01/20/2025	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	01/17/2025	ND	208	104	200	5.74	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	192	96.0	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 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:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03206	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 3 (H250286-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2025	ND	1.97	98.6	2.00	8.96	
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81	
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50	
Total BTEX	<0.300	0.300	01/19/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/21/2025	ND	432	108	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	01/18/2025	ND	208	104	200	5.74	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	192	96.0	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 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:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	VACUUM ABO 2 INJECTION HEADER	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03206	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO NM		

**Sample ID: SW - 4 (H250286-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2025	ND	1.97	98.6	2.00	8.96	
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81	
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50	
Total BTEX	<0.300	0.300	01/19/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/21/2025	ND	432	108	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	01/18/2025	ND	208	104	200	5.74	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	192	96.0	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Custody Record



# Tetra Tech, Inc.

901 W Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

ANALYSIS REQUEST  
(Circle or Specify Method No.)

Client Name: Maverick Natural Resources Site Manager: Chuck Terhune  
281-755-8965

Project Name: Vaccum ABO 2 Injection Header Project #: chuck.terhune@tetratech.com  
212C-MD-03206

Project Location: Lea County, NM  
Invoice to: Attn: Chuck Terhune

Receiving Laboratory: Cardinal Labs Sampler Signature: Jorge Fernandez

Comments: Include : Chris Straub Chris.Straub@tetratech.com Jorge.Fernandez@tetratech.com Adrian.Garcia@tetratech.com

LAB # H3503810  
(LAB USE ONLY)

ID	DESCRIPTION	DATE	TIME	SAMPLING		WATER	SOIL	PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
				YEAR: 2024				HCL	HNO <sub>3</sub>	ICE		
1	BH-1 (4.0')	1/17/2025	1600			X			X			
2	BH-2 (4.0')	1/17/2025	1005			X			X			
3	SW-3	1/17/2025	1016			X			X			
4	SW-4	1/17/2025	1015			X			X			

Relinquished by: [Signature] Date: 1/17-25 Time: 1215

Relinquished by: [Signature] Date: [ ] Time: [ ]

Relinquished by: [Signature] Date: [ ] Time: [ ]

LAB USE ONLY	REMARKS:	STANDARD TAT
<input checked="" type="checkbox"/> RUSH: Same Day 24 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report	Standard TAT	48 hr

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

ORIGINAL COPY

Remediation Report and Closure Request  
Vacuum ABO 2 Injection Header Release  
Incident ID# nAPP2321460560

Maverick Permian, LLC  
February 26, 2026

**ATTACHMENT 3 – CULTURAL RESOURCES SURVEY COVER SHEET**



Stephanie Garcia Richard, Commissioner of Public Lands  
State of New Mexico

### NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number: 156721  
(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

**Negative** - No further archaeological review is required.

**Positive** - Have avoidance and protection measures been devised? Select one:

Comments:

#### Project Details:

NMSLO Lease Number (if available): B021310000

Cultural Resources Consultant: Tetra Tech Inc

Project Proponent (Applicant): Maverick Permian, LLC

Project Title/Description: Vacuum ABO 2 Remediation Project for an Accidental Release.  
Tetra Tech Project 212C-MD-03206

#### Project Location:

County(ies): Lea

PLSS/Section/Township/Range): S04/T18S/R35E

---

#### For NMSLO Agency Use Only:

NMSLO Lease Number:  Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

*No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.*

Form Revised 12 22

Remediation Report and Closure Request  
Vacuum ABO 2 Injection Header Release  
Incident ID# nAPP2321460560

Maverick Permian, LLC  
February 26, 2026

## **ATTACHMENT 4 – PHOTOGRAPHIC DOCUMENTATION**



☉ 38°NE (T) LAT: 32.778682 LON: -103.463665 ±4m ▲ 1201m



Site Remediation  
Tetra Tech

Maverick- Vacuum ABO 2  
Jan 17 2025, 11:12:00 MST



☀ 42°NE (T) LAT: 32.778726 LON: -103.463595 ±5m ▲ 1201m



Site Remediation  
Tetra Tech

Maverick- Vacuum ABO 2  
Jan 17 2025, 11:12:15 MST

NW

N

NE

E

300

330

0

30

60

90

☀ 11°N (T) LAT: 32.778880 LON: -103.463414 ±3m ▲ 1200m



Site Remediation  
Tetra Tech

Maverick- Vacuum ABO 2  
Jan 17 2025, 11:12:37 MST

SW

W

NW

N

210

240

270

300

330

0

☉ 280°W (T) LAT: 32.779038 LON: -103.463281 ±4m ▲ 1201m



Site Remediation  
Tetra Tech

Maverick- Vacuum ABO 2  
Jan 17 2025, 11:13:14 MST

NE

E

SE

S

30

60

90

120

150

180

☉ 98°E (T) LAT: 32.778998 LON: -103.463362 ±4m ▲ 1196m



Site Remediation  
Tetra Tech

Maverick - Vacuum ABO 2  
Jan 17 2025, 11:13:37 MST

SE

S

SW

W

150

180

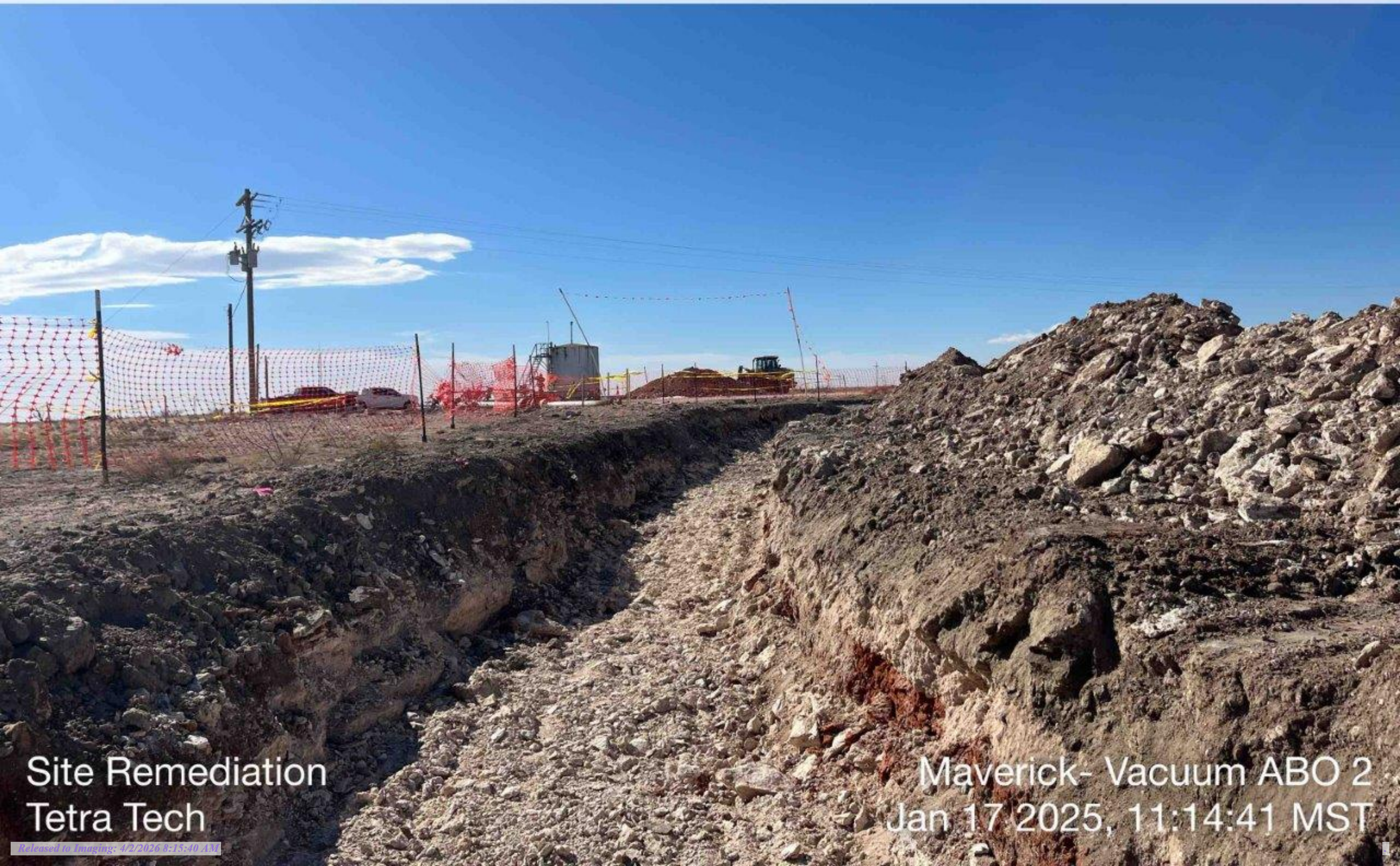
210

240

270

300

☉ 217°SW (T) LAT: 32.778918 LON: -103.463427 ±3m ▲ 1202m



Site Remediation  
Tetra Tech

Maverick- Vacuum ABO 2  
Jan 17 2025, 11:14:41 MST



☉ 254°W (T) LAT: 32.778863 LON: -103.463456 ±4m ▲ 1202m



Site Remediation  
Tetra Tech

Maverick- Vacuum ABO 2  
Jan 17 2025, 11:14:57 MST



☉ 114°SE (T) LAT: 32.778825 LON: -103.463848 ±3m ▲ 1198m



Site Remediation  
Tetra Tech

Maverick- Vacuum ABO 2  
Jan 17 2025, 11:15:30 MST

NW

N

NE

E

300

330

0

30

60

90

☉ 18°N (T) LAT: 32.778515 LON: -103.463744 ±2m ▲ 1205m



Site Remediation  
Tetra Tech

Maverick- Vacuum ABO 2  
Jan 30 2025, 12:01:57 MST



☀ 28°NE (T) LAT: 32.778806 LON: -103.463460 ±3m ▲ 1206m



Site Remediation  
Tetra Tech

Maverick- Vacuum ABO 2  
Jan 30 2025, 12:02:50 MST

NW

N

NE

E

300

330

0

30

60

90

☀ 13°N (T) LAT: 32.778915 LON: -103.463333 ±4m ▲ 1206m



Site Remediation  
Tetra Tech

Maverick- Vacuum ABO 2  
Jan 30 2025, 12:03:12 MST

S

SW

W

NW

150

180

210

240

270

300

330

☉ 240°SW (T) LAT: 32.779009 LON: -103.463356 ±2m ▲ 1206m



Site Remediation  
Tetra Tech

Maverick- Vacuum ABO 2  
Jan 30 2025, 12:03:28 MST

Remediation Report and Closure Request  
Vacuum ABO 2 Injection Header Release  
Incident ID# nAPP2321460560

Maverick Permian, LLC  
February 26, 2026

**ATTACHMENT 5 – SEED MIXTURE**

**NMSLO Seed Mix****Loamy (L)****LOAMY (L) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
<b>Grasses:</b>			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
<b>Forbs:</b>			
Firewheel ( <i>Gaillardia</i> )	VNS, Southern	1.0	D
<b>Shrubs:</b>			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
<b>Total PLS/acre</b>		<b>18.0</b>	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box  
 VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.

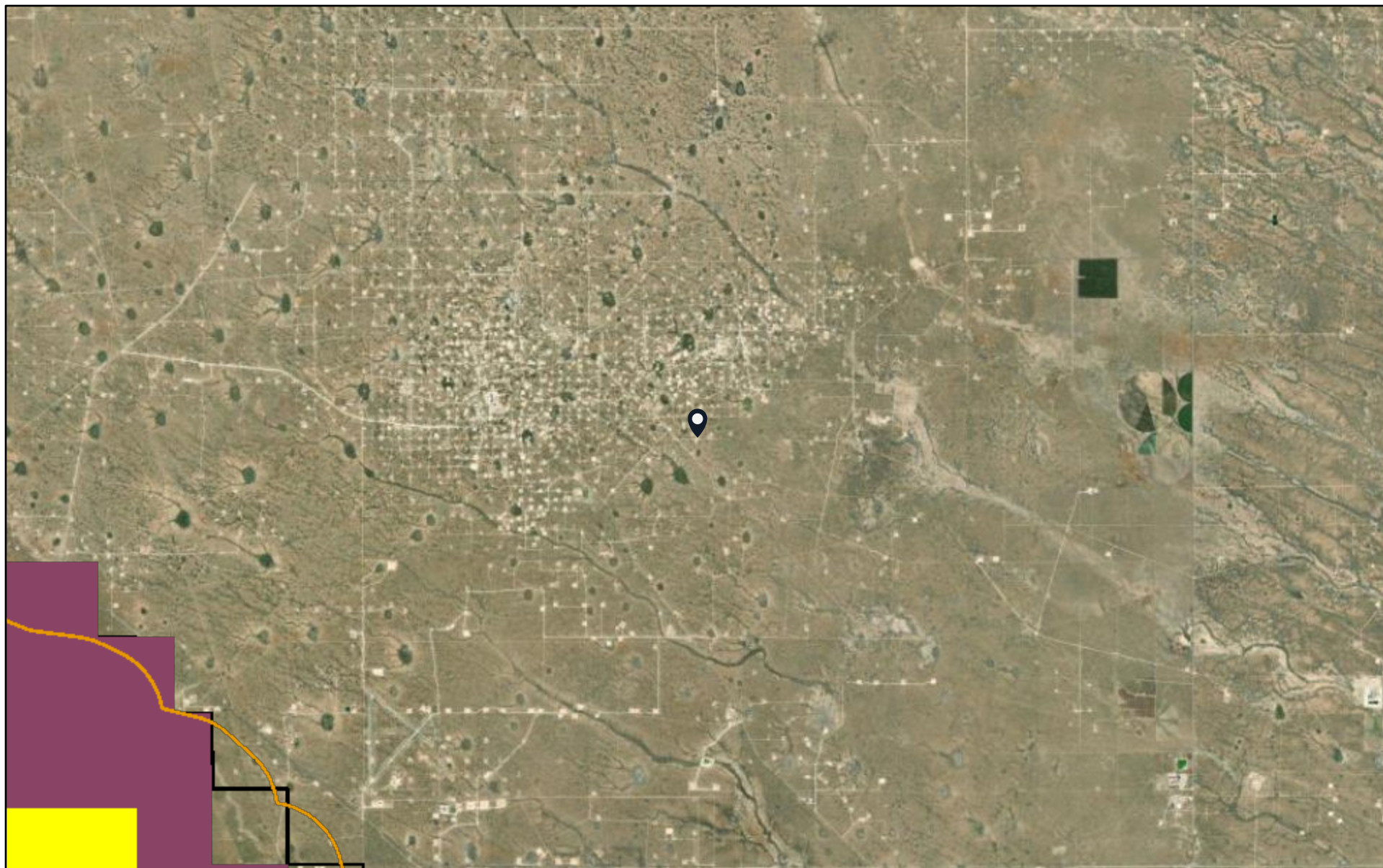


Remediation Report and Closure Request  
Vacuum ABO 2 Injection Header Release  
Incident ID# nAPP2321460560






Maverick Permian, LLC  
February 26, 2026

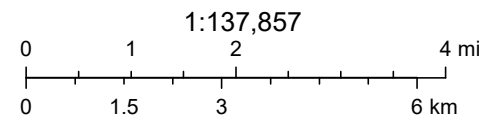
## **ATTACHMENT 6 – BIOLOGICAL COMPLIANCE REVIEW**

# Vacuum Abo 2 Injection Header Release



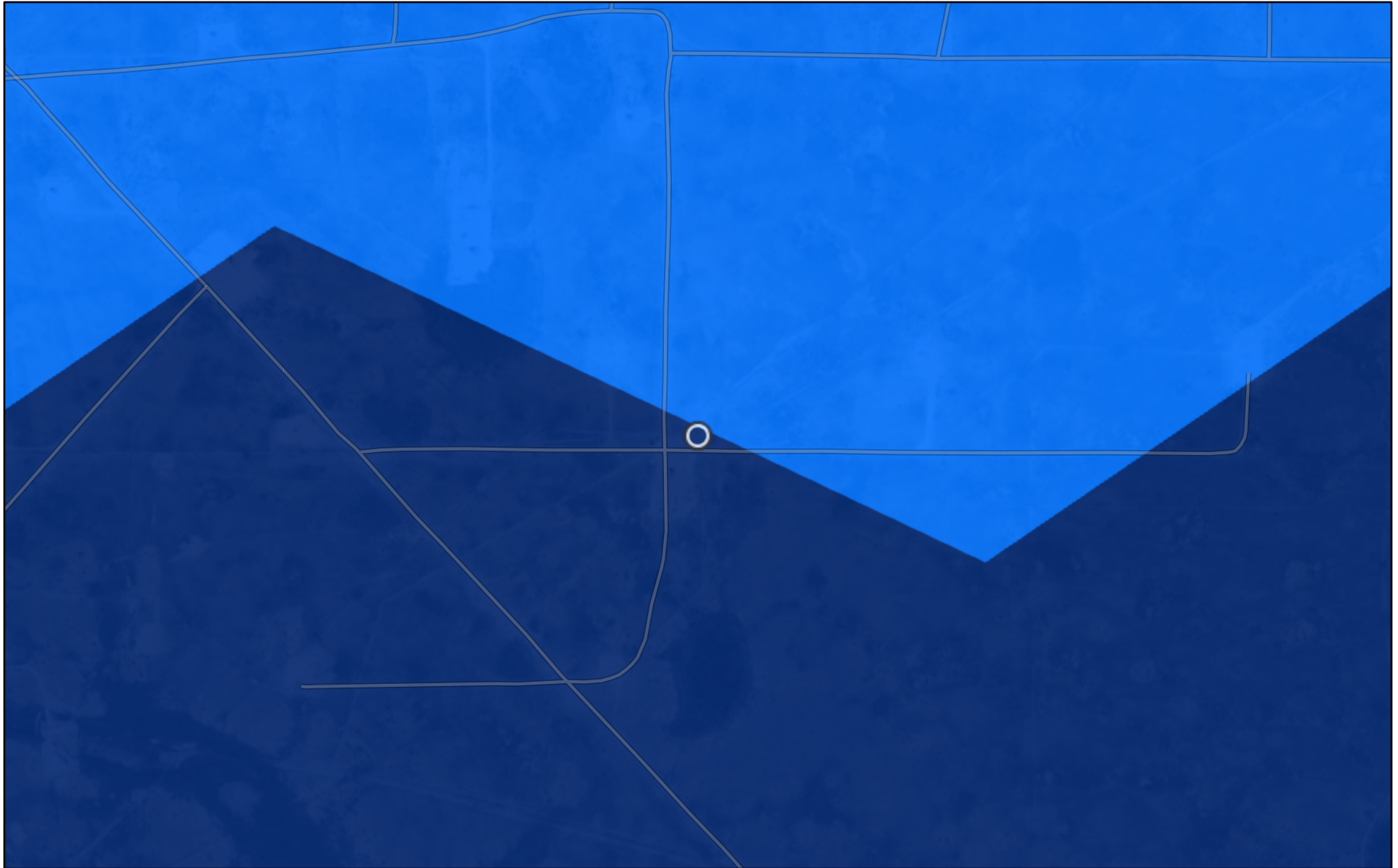
2/26/2026

-  Dunes Sage Brush Lizard Habitat
-  Isolated Population Area
-  Lesser Prairie Chicken TR
-  Habitat Evaluation Area
-  Lesser Prairie Chicken Habitat



Bureau of Land Management - New Mexico State Office, Earthstar Geographics

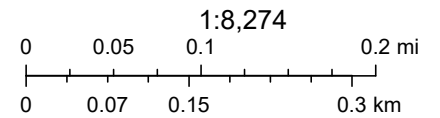
# Vacuum Abo 2 Header Injection



2/26/2026

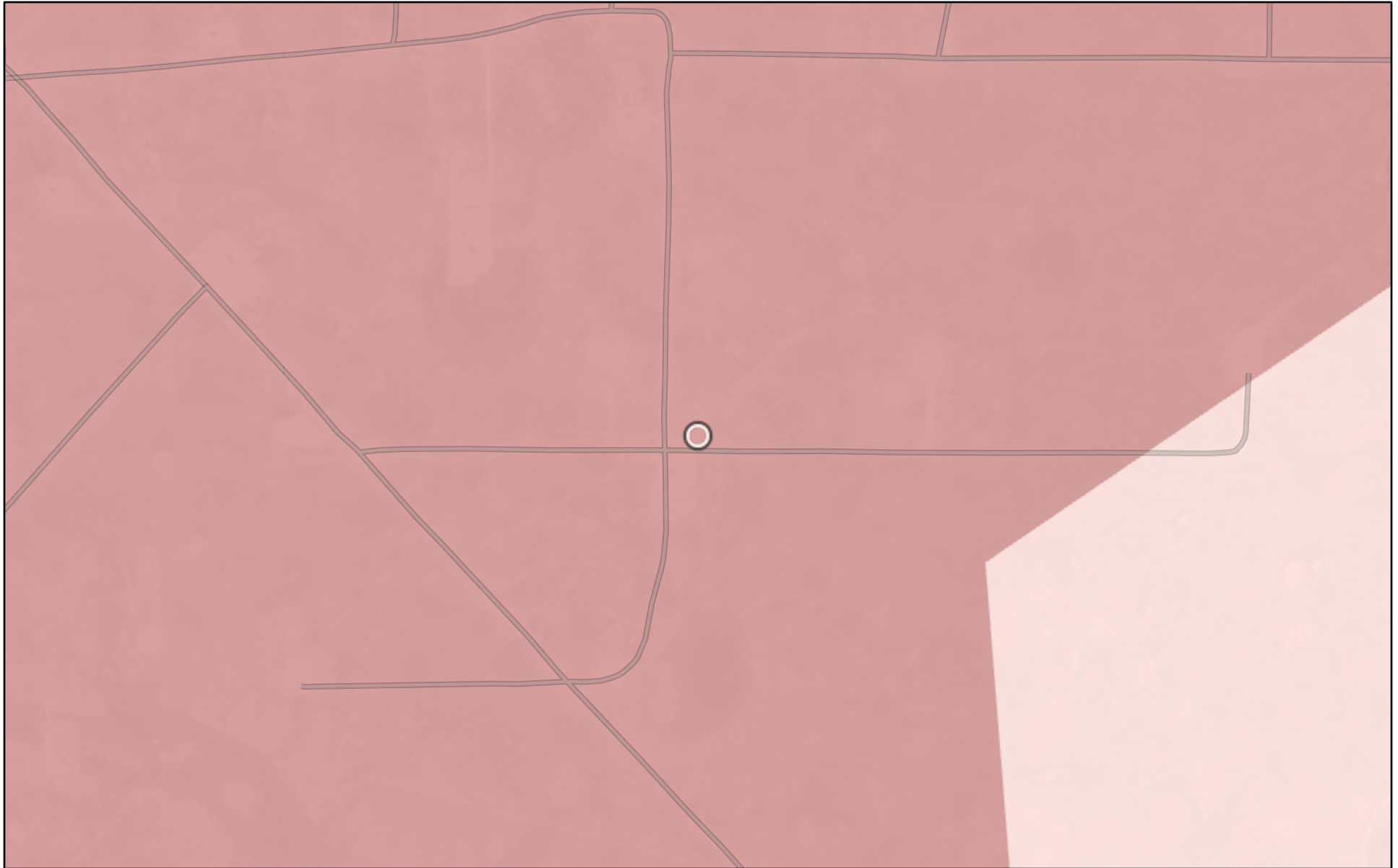
Crucial Habitat (2024)  4

1



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Vantor

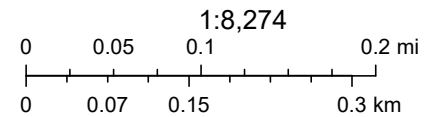
# Vacuum Abo 2 Header Injection



2/26/2026

Species of Concern (2024) 5

4



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Vantor

B021310000

B017130011

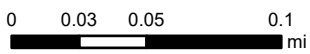
GS21120002



OG23020000

E032860004

### Land Status



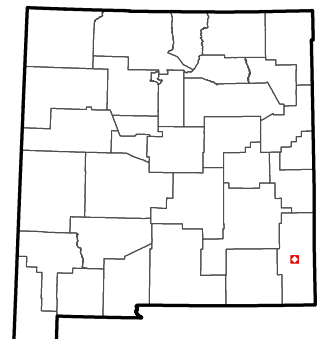
**New Mexico State Land Office**

Disclaimer:  
The New Mexico State Land Office assumes no responsibility or liability for, or in connection with the accuracy, reliability or use of the information provided herein with respect to State Land Office data or data from other sources.

Data pertaining to New Mexico State Trust Lands are provisional and subject to revision, and do not constitute an official record of title. Official records may be reviewed at the New Mexico State Land Office in Santa Fe, New Mexico.

Released to Imaging: 4/2/2026 8:15:40 AM  
Map Created: 2/26/2026

-  User drawn points
-  Oil and Gas Leasing Restrictions
-  Energy Leases
-  Agricultural Leases
-  Oil and Gas Leases
-  Minerals Leases
-  Commercial Leases
- New Mexico State Trust Lands**
-  Subsurface Estate
-  Surface Estate
-  Both Estates



# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

## Location

Lea County, New Mexico



## Local office

New Mexico Ecological Services Field Office

☎ (505) 346-2525

📠 (505) 346-2542

2105 Osuna Road Ne  
Albuquerque, NM 87113-1001

# Endangered species

**This resource list is for informational purposes only and does not constitute an analysis of project level impacts.**

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

## Birds

NAME	STATUS
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/1923">https://ecos.fws.gov/ecp/species/1923</a>	<a href="#">EXPN</a>

## Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical habitat. <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Proposed Threatened

## Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

# Bald & Golden Eagles

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act <sup>2</sup> and the Migratory Bird Treaty Act (MBTA) <sup>1</sup>. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their nests, should follow appropriate regulations and implement required avoidance and minimization measures, as described in the various links on this page.

The [data](#) in this location indicates that no eagles have been observed in this area. This does not mean eagles are not present in your project area, especially if the area is difficult to survey. Please review the 'Steps to Take When No Results Are Returned' section of the [Supplemental Information on Migratory Birds and Eagles document](#) to determine if your project is in a poorly surveyed area. If it is, you may need to rely on other resources to determine if eagles may be present (e.g. your local FWS field office, state surveys, your own surveys).

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incidentals-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

## Bald & Golden Eagles FAQs

### What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply).

### Proper interpretation and use of your eagle report

On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort line or no data line (red horizontal) means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide you in knowing when to implement avoidance and minimization measures to eliminate or reduce potential impacts from your project activities or get the appropriate permits should presence be confirmed.

### How do I know if eagles are breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

#### How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

#### Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

#### No Data ()

A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

## Migratory birds

The Migratory Bird Treaty Act (MBTA) <sup>1</sup> prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

### Measures for Proactively Minimizing Migratory Bird Impacts

Your IPaC Migratory Bird list showcases [birds of concern](#), including [Birds of Conservation Concern \(BCC\)](#), in your project location. This is not a comprehensive list of all birds found in your project area. However, you can help proactively minimize significant impacts to all birds at your project location by implementing the measures in the [Nationwide avoidance and minimization measures for birds](#) document, and any other project-specific avoidance and minimization measures suggested at the link [Measures for avoiding and minimizing impacts to birds](#) for the birds of concern on your list below.

### Ensure Your Migratory Bird List is Accurate and Complete

If your project area is in a poorly surveyed area, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the [Supplemental Information on Migratory Birds and Eagles document](#), to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

### Review the FAQs

The FAQs below provide important additional information and resources.

NAME	BREEDING SEASON
Chestnut-collared Longspur <i>Calcarius ornatus</i>	Breeds May 1 to Aug 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	

## Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read ["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in

week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .

- The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

#### Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

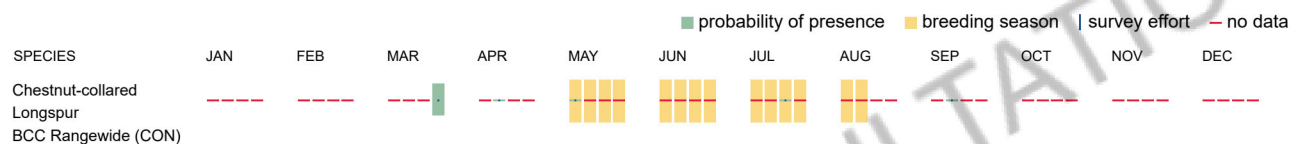
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

#### No Data (-)

A week is marked as having no data if there were no survey events for that week.

#### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



## Migratory Bird FAQs

**Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Avoidance & Minimization Measures for Birds](#) describes measures that can help avoid and minimize impacts to all birds at any location year-round. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is one of the most effective ways to minimize impacts. To see when birds are most likely to occur and breed in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

**What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?**

The Migratory Bird Resource List is comprised of [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location, such as those listed under the Endangered Species Act or the [Bald and Golden Eagle Protection Act](#) and those species marked as "Vulnerable". See the FAQ "What are the levels of concern for migratory birds?" for more information on the levels of concern covered in the IPaC migratory bird species list.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) with which your project intersects. These species have been identified as warranting special attention because they are BCC species in that area, an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, and to verify survey effort when no results present, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

**Why are subspecies showing up on my list?**

Subspecies profiles are included on the list of species present in your project area because observations in the AKN for **the species** are being detected. If the species are present, that means that the subspecies may also be present. If a subspecies shows up on your list, you may need to rely on other resources to determine if that subspecies may be present (e.g. your local FWS field office, state surveys, your own surveys).

**What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

**How do I know if a bird is breeding, wintering, or migrating in my area?**

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Bald and Golden Eagle Protection Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially BCC species. For more information on avoidance and minimization measures you can implement to help avoid and minimize migratory bird impacts, please see the FAQ "Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

### Proper interpretation and use of your migratory bird report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list does not represent all birds present in your project area. It is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide implementation of avoidance and minimization measures to eliminate or reduce potential impacts from your project activities, should presence be confirmed. To learn more about avoidance and minimization measures, visit the FAQ "Tell me about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

### Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

#### **How is the probability of presence score calculated? The calculation is done in three steps:**

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

#### **Breeding Season ( )**

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### **Survey Effort ( )**

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

#### **No Data ( )**

A week is marked as having no data if there were no survey events for that week.

#### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

## Facilities

### National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

### Fish hatcheries

There are no fish hatcheries at this location.

### Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

#### Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

#### Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

#### Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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

QUESTIONS

Action 558291

**QUESTIONS**

Operator: Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	OGRID: 331199
	Action Number: 558291
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2321460560
Incident Name	NAPP2321460560 VACUUM ABO 2 INJECTION HEADER @ F-04-18S-35E 610S 295E
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

**Location of Release Source**

*Please answer all the questions in this group.*

Site Name	VACUUM ABO 2 INJECTION HEADER
Date Release Discovered	08/02/2023
Surface Owner	State

**Incident Details**

*Please answer all the questions in this group.*

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

**Nature and Volume of Release**

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Injection Header   Produced Water   Released: 22 BBL   Recovered: 0 BBL   Lost: 22 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.

Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Injection header trunk line rupture resulting in the release of approximately 22 bbls of produced water onto the pad and surrounding pasture.
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QUESTIONS, Page 2

Action 558291

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	OGRID: 331199
	Action Number: 558291
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

**Initial Response**

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

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Chris Straub Title: Contractor Email: <a href="mailto:chris.straub@tetrattech.com">chris.straub@tetrattech.com</a> Date: 02/26/2026
--	--

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QUESTIONS, Page 3

Action 558291

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	OGRID: 331199
	Action Number: 558291
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	4320
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	01/16/2025
On what date will (or did) the final sampling or liner inspection occur	01/22/2025
On what date will (or was) the remediation complete(d)	01/17/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	2050
What is the estimated volume (in cubic yards) that will be remediated	348

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

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

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QUESTIONS, Page 4

Action 558291

**QUESTIONS (continued)**

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	Action Number: 558291
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Chris Straub Title: Contractor Email: <a href="mailto:chris.straub@tetrattech.com">chris.straub@tetrattech.com</a> Date: 02/26/2026
--	--

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

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QUESTIONS, Page 5

Action 558291

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	OGRID: 331199
	Action Number: 558291
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 558291

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	OGRID: 331199
	Action Number: 558291
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>421736</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>01/22/2025</b>
What was the (estimated) number of samples that were to be gathered	<b>4</b>
What was the sampling surface area in square feet	<b>800</b>

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2050
What was the total volume (cubic yards) remediated	348
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	None

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

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

I hereby agree and sign off to the above statement	Name: Chris Straub Title: Contractor Email: chris.straub@tetrattech.com Date: 02/26/2026
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QUESTIONS, Page 7

Action 558291

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	OGRID: 331199
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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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CONDITIONS

Action 558291

**CONDITIONS**

Operator: Maverick Permian LLC 500 Dallas Street, Suite 2300 Houston, TX 77002	OGRID: 331199
	Action Number: 558291
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
nvez	None	4/2/2026