



November 8, 2024

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

**Re: Reclamation Report and Closure Request
Maverick Permian, LLC
Tomahawk 19 State #001 Battery Release
Unit Letter Unit Letter H, Section 19, Township 17 South, Range 34 East
Lea County, New Mexico
Incident ID# nRM2028029792**

Dear Sir or Madam,

ConocoPhillips Company (COP) contracted Tetra Tech, Inc. (Tetra Tech) to assess the release that occurred at the Tomahawk 19 State #001 Battery. The release footprint is located in Public Land Survey System (PLSS) Unit Letter H, Section 19, Township 17 South, Range 34 East, in Lea County, New Mexico (Site). The release occurred at coordinates 32.820098°, -103.595542°, as shown in **Figure 1** and **Figure 2**. Tetra Tech assessed the release and submitted a Release Characterization and Deferral Request dated March 17, 2021, to the NMOCD. The Deferral Request was subsequently accepted on March 9, 2021. Maverick Permian, LLC (Maverick) acquired this site from COP in 2022 and contracted Tetra Tech to complete the deferred remediation as part of the facility deconstruction and reclamation.

BACKGROUND

According to the State of New Mexico C-141 Initial Report, the release was discovered on September 25, 2020, when approximately 28 barrels (bbls) of crude oil were released due to a tank failure. The reported release footprint was largely contained within the earthen berm of the tank battery. Vacuum trucks were dispatched to remove the freestanding fluids, recovering approximately 10 bbls of oil. The API# listed in the C-141 is for the Tomahawk 19 State #001 well. New Mexico Oil Conservation Division (NMOCD) was notified of the release on September 26, 2020, and assigned the release Incident ID nRM2028029792.

SITE CHARACTERIZATION

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

Receptors

Tetra Tech identified no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). According to the NMOCD Oil and Gas Map online, the Site is in an area of low karst potential.

Tetra Tech, Inc.

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Depth to Groundwater

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, one (1) water wells is located within ½-mile of the site, which has a reported depth to groundwater of 140 feet below ground surface (bgs) that is less than 25 years old.

Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as having Kimbrough gravelly loam, dry, 0 to 3 percent slopes soil, which is classified as a loamy soil type.

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 was used to determine recommended remedial action levels (RRALs) for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), Total Petroleum Hydrocarbons (TPH), and chloride in soil.

Based on the proven depth to water and distances to potential receptors, and in accordance with Table I of 19.15.29.12 NMAC, the following are the remediation RRALs for the Site for groundwater greater than 100 feet bgs:

Closure Criteria for Soils Impacted by a Release

Constituent	Remediation RRAL
Chloride	20,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	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)* dated 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

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SITE ASSESSMENT AND DEFERRAL

Initial Response

ConocoPhillips elected to begin remediation of the release area immediately in 2020. The approximate release footprint is indicated in **Figure 3**. The interior of the earthen berm (majority of the footprint of the release) was excavated to approximately 6 inches bgs to remove the visually impacted soils as shown in **Figure 4**. The area where the release overtopped the berm was also excavated to six inches bgs. The entirety of the tank battery and surrounding area is underlain by a dense cap rock. Approximately 22 cubic yards of impacted material were excavated and transported offsite for disposal at R360 Halfway Landfill and Disposal in Hobbs, New Mexico.

Initial Site Assessment

In order to determine if initial response remedial activities had met the remediation standards, Tetra Tech personnel collected samples from floor areas within the release extent and from boring locations around the perimeter of the release area. Assessment boring locations are shown on **Figure 4**. 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 4500.0. A copy of the laboratory analytical data package, including chain-of-custody documentation, is provided in **Attachment 2**.

The analytical results associated with sample location Floor-1 within the containment berm and Floor-2 outside the berm reported concentrations for TPH and/or chloride as greater than respective Reclamation Requirements. The analytical results associated with the perimeter boring locations reported constituent concentrations as less than Reclamation Requirements for BTEX, TPH, and chloride. The results of the December 2020 sampling event are summarized in **Table 1**. The release extent was horizontally delineated. However, vertical delineation was not achieved for the release extent during the December 2020 sampling event.

Additional Site Assessment

Given that horizontal delineation had been achieved, Tetra Tech performed vertical delineation of impacted soils within the release extent. Using a backhoe, Trench-1 was excavated within the release footprint, just outside the earthen berm, on March 10, 2021. Tetra Tech personnel collected four samples from the trench and submitted them to Cardinal Laboratory for analysis of BTEX, TPH, and chloride.

The analytical results associated with the samples analyzed reported constituent concentrations as less than respective Reclamation Requirements in both the 2-3' and 3-4' sample intervals. Thus, the release footprint was considered vertically delineated. The trench location is shown in **Figure 4**. The analytical results are summarized in **Table 1**, and a copy of the laboratory analytical data package, including chain-of-custody documentation, is included in Appendix **Attachment 2**.

Remediation Deferral

At the time of the Additional Site Assessment, the Tomahawk 19 State #001 and associated tank battery were scheduled for abandonment in 2021. Based on the results of the site assessment and release delineation, ConocoPhillips requested remediation deferral in the Release Characterization and Deferral Request report dated March 17, 2021. The NMOCD approved remediation deferral at the Site on April 9, 2021.

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CULTURAL PROPERTIES PROTECTION

In accordance with the New Mexico State Land Office (NMSLO)-approved reclamation work plan, Tetra Tech proposed to conduct reclamation of the Tomahawk 19 State #001 well and tank battery facility in already developed and previously disturbed areas associated with the Site. As a result, an Archaeological Records Management System (ARMS) review was deemed unnecessary unless the reclamation activities would need to be extended beyond the current Site footprint. The reclamation activities associated with the Site did extend beyond the previously developed areas at the Site. Therefore, no archaeological review was required at the Site.

FACILITY DECONSTRUCTION

Facility deconstruction activities commenced on August 28, 2024, and concluded on September 6, 2024. Maverick's subcontractor, Standard Safety and Supply (Standard) cleaned and emptied the storage tanks, disassembled the tank battery, unjointed battery piping, dismantled walkways, flushed lines, pulled and cut up flowlines, and removed all equipment and piping from the facility for recycling or disposal, as appropriate. Photographs of deconstruction activities are provided in **Attachment 3**

RECLAMATION AND CONFIRMATION SAMPLING

Excavation activities associated with the deferred remediation commenced on September 10, 2024, and concluded on September 12, 2024. Standard used heavy equipment to excavate impacted soil from the remediation area to a maximum depth of four (4) feet bgs. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed.

Standard excavated a total of 468 cubic yards of contaminated soil from an approximately 2,750-square-foot area and transported the soil to R360 for offsite disposal. Photographs of the final excavation are provided in **Attachment 3**.

Confirmation Sampling Notification

On September 11, 2024, Tetra Tech notified the NMOCD and the NMSLO of the anticipated initial confirmation sampling through the submission of a C-141N Sampling Notification submission in the NMOCD ePermitting portal to cover final confirmation sampling conducted on September 13, 2024. Mr. Deon David of NMSLO responded to the sampling notification and coordinated with Tetra Tech field staff to observe sampling on September 13, 2024.

Confirmation Sampling

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 23 final confirmation samples, including 16 5-point composite floor samples and seven (7) five-point composite side wall samples from the excavated areas. The remediation excavation confirmation sampling area comprised an approximately 2,750 square foot base and 975 square feet of sidewall for a total area of 3,725 square feet and a sampling density of approximately one (1) confirmation sample per 162 square feet.

Samples were submitted to Cardinal Laboratory in Hobbs, New Mexico, to analyze 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 respective Reclamation Requirements, demonstrating clean margins. Confirmation sample laboratory analytical results screened against Reclamation Requirements are summarized in **Table 3**, and laboratory analytical data packages, including chain of custody documentation remediation confirmation sampling, are included in **Attachment 2**. Confirmation sampling locations and excavation extents are shown in **Figure 5**.

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Excavation Backfill

On September 5, 2024, subsequent to the receipt of final confirmation sampling results, Standard completed the backfilling of the excavated areas with 450 cubic yards of clean soil sourced from Boyd Pit. Photographic documentation showing the excavated areas and final grading after backfilling is provided in **Attachment 4**.

Reclamation and Revegetation

To restore the impacted surface areas to the condition that existed prior to the release, the excavated areas have been backfilled with clean topsoil, and disturbed areas of impacted pastureland have been graded back to match the surrounding topography and the pre-existing condition prior to contouring to provide erosion control, long-term stability, prevent ponding of water, and preserve surface water flow patterns.

Subsequent to restoring topography and contouring the disturbed areas, disturbed areas of the Site, as shown in **Figure 4** and **Figure 5**, were seeded with New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture in accordance with the Site soil profile detailed above in the Site Characterization Section, to aid in vegetation growth to complete reclamation. Seeding was conducted with a seed drill at the application rates specified for seed drill application in pound pure live seed per acre according to the NMSLO Seed Mix Loamy (L) data sheet provided in **Attachment 4**.

CONCLUSION

Based on the confirmation sampling results, the impacted soil within the release footprint with concentrations greater than Reclamation Requirements has been removed and properly disposed of offsite, the excavated area has been backfilled with clean topsoil, and the surface of the well pad and tank battery facility has been reclaimed; therefore, Site remediation and reclamation is complete. Revegetation will be monitored and a Revegetation Report will be prepared and submitted to the NMOCD once revegetation requirements have been achieved at the Site. If you have any questions concerning the remediation activities for the Site, please contact Chuck Terhune by phone at (281) 252-2093 or by email at chuck.terhune@tetrattech.com.

Sincerely,



Chris Straub
Project Manager
Tetra Tech, Inc.



Charles H. Terhune IV, P.G.
Program Manager
Tetra Tech, Inc.

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

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LIST OF ATTACHMENTS

Figures

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent Map
- Figure 4 – Initial Remediation Activities and Assessment Sampling Locations Map
- Figure 5 – Remediation Extents and Confirmation Sample Locations Map

Tables

- Table 1 – Site Assessment Locations
- Table 2 – Summary of Analytical Results – Initial Site Assessment Sampling
- Table 3 – Summary of Analytical Results – Remediation Confirmation Sampling

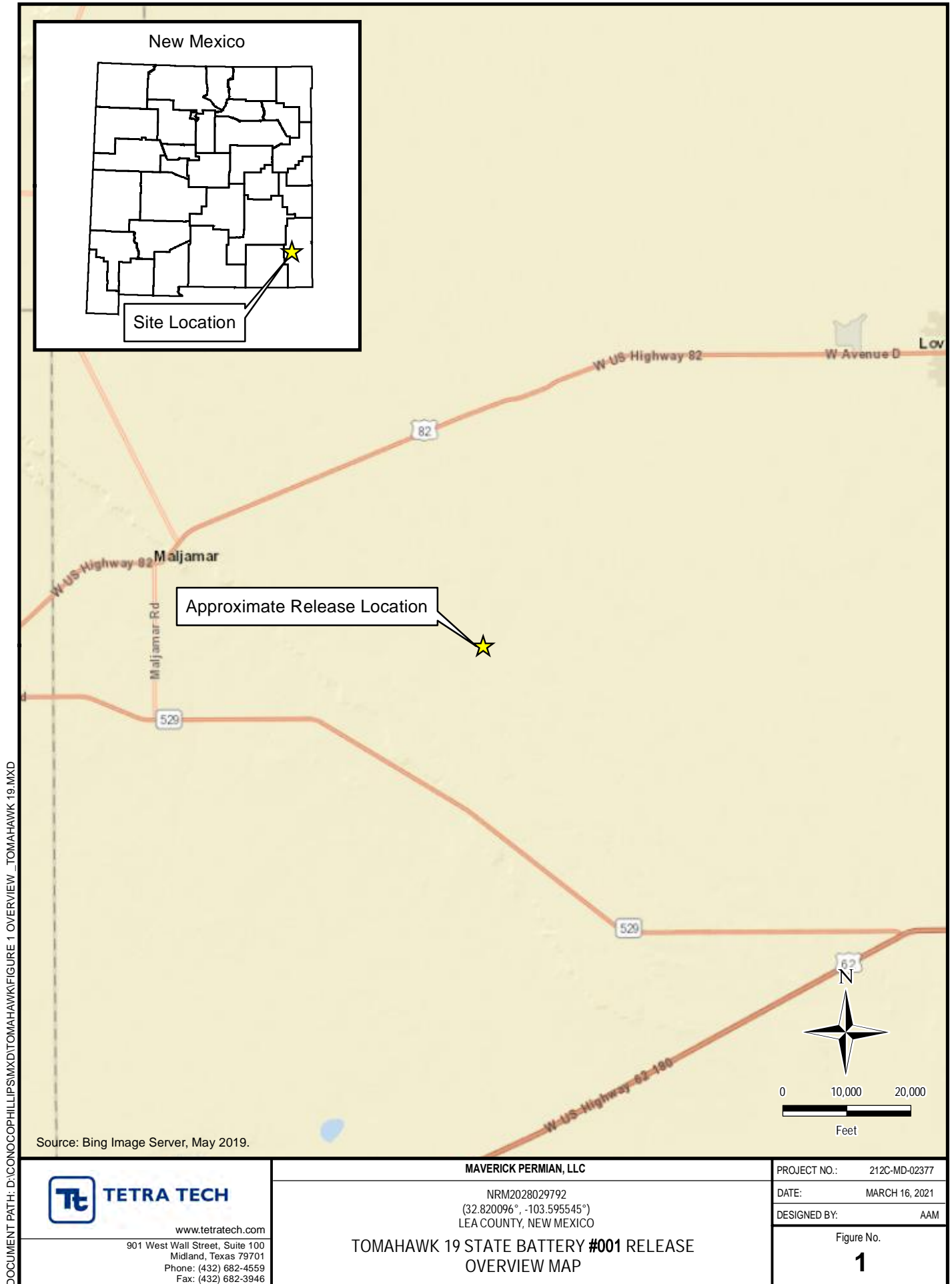
Attachments

- Attachment 1 – Site Characterization Data
- Attachment 2 – Laboratory Analytical Data
- Attachment 3 – Photographic Documentation
- Attachment 4 – Seed Mixture

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November 8, 2024

FIGURES





TETRA TECH

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MAVERICK PERMIAN, LLC

NRM2028029792
(32.820096°, -103.595545°)
LEA COUNTY, NEW MEXICO

**TOMAHAWK 19 STATE #001 BATTERY RELEASE
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-02377

DATE: MARCH 16, 2021

DESIGNED BY: AAM

Figure No.

2

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\TOMAHAWK\FIGURE 2 TOPO _TOMAHAWK 19.MXD



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\TOMAHAWK\FIGURE 3 RELEASE _TOMAHAWK 19.MXD



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MAVERICK PERMIAN, LLC

NRM2028029792

(32.820096°, -103.595545°)

LEA COUNTY, NEW MEXICO

TOMAHAWK 19 STATE #001 BATTERY RELEASE
APPROXIMATE RELEASE EXTENT

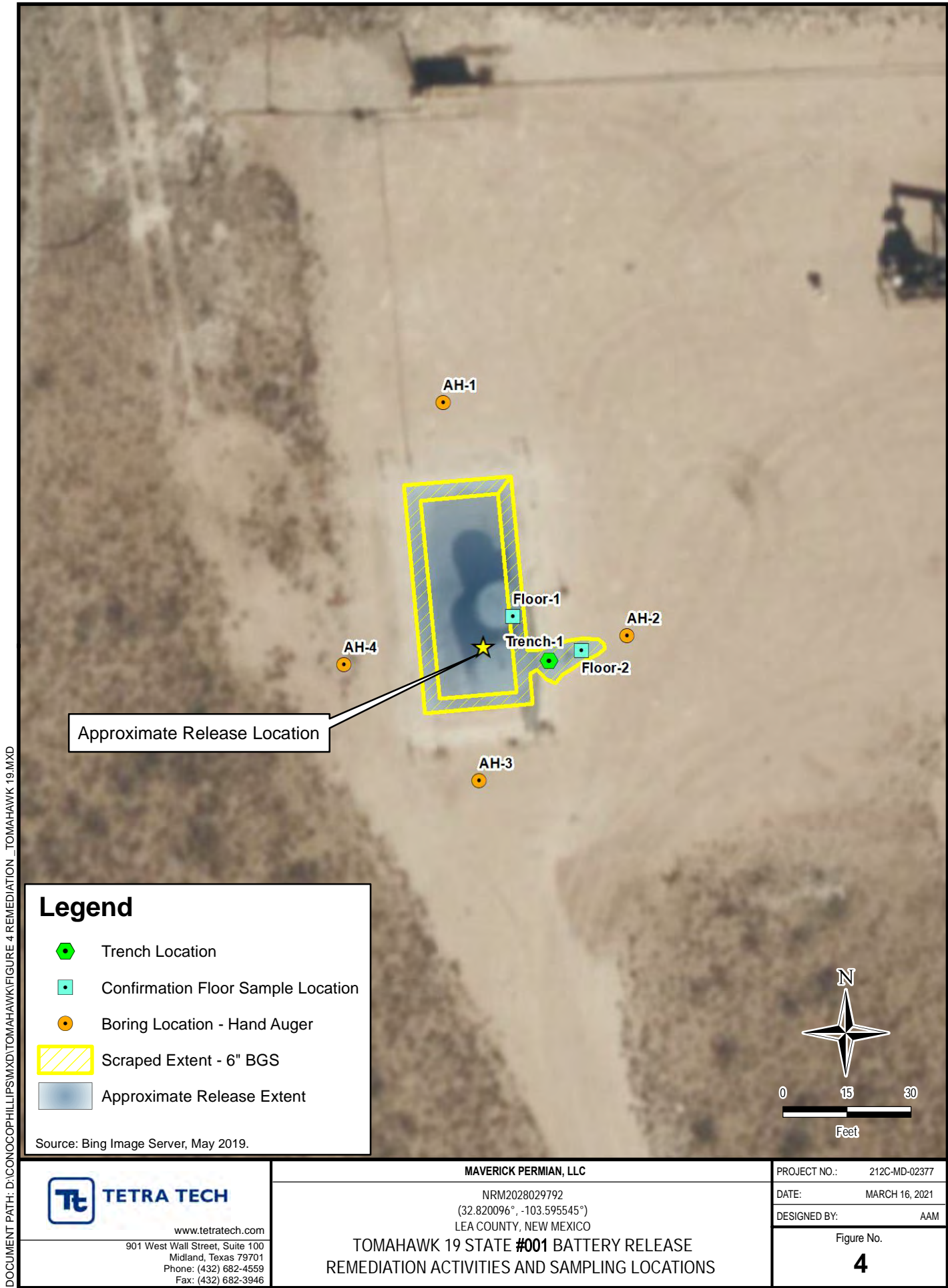
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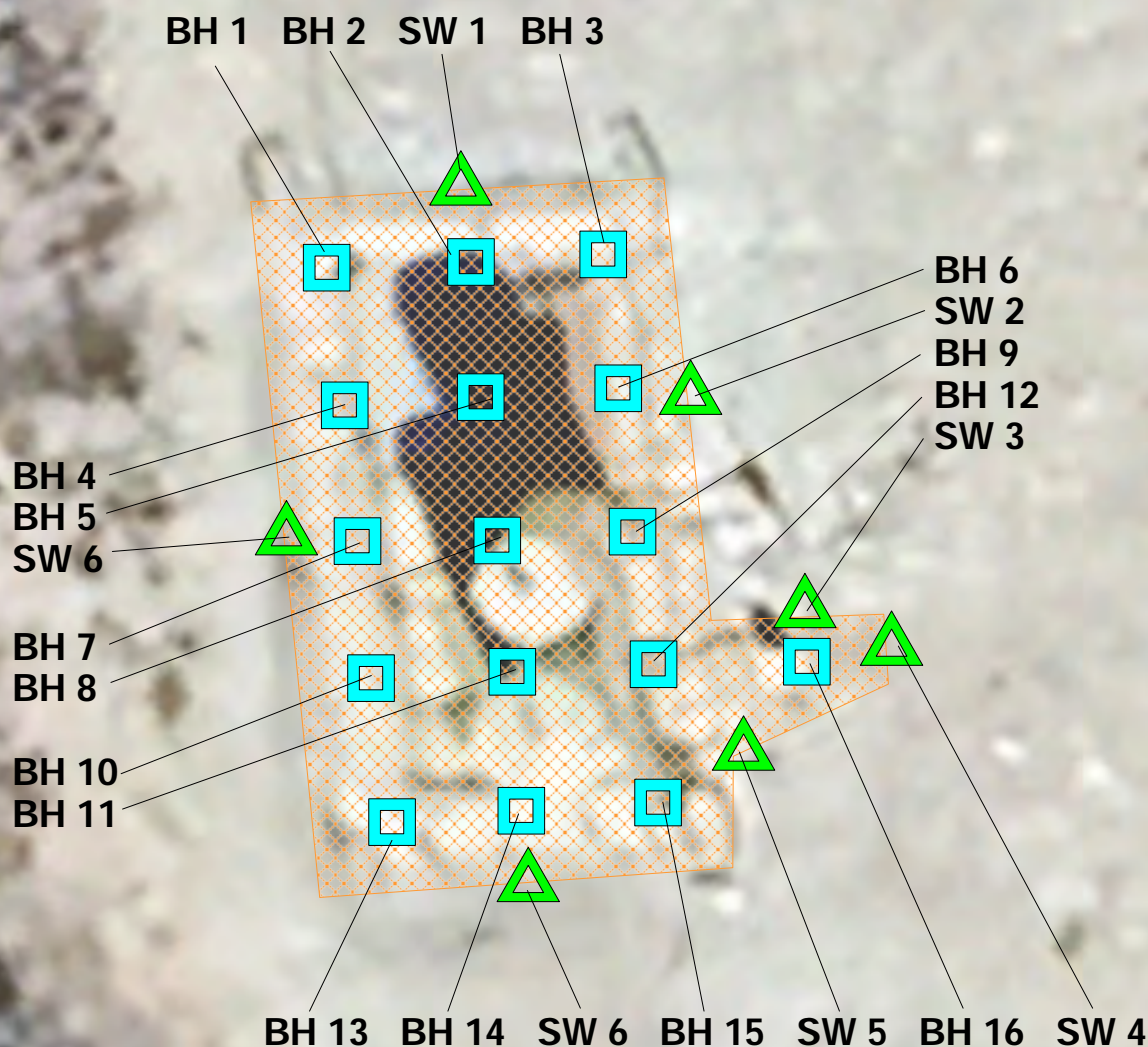
DATE: MARCH 16, 2021

DESIGNED BY: AAM




Figure No.

3





Legend

-  4' Excavation
-  Floor Confirmation Sample Location
-  Sidewall Confirmation Sample Location

Sources: Google Earth, 2023



Feet

0 25 50

**TETRA TECH**

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Suite 1000
Houston, Texas 77042

MAVERICK PERMIAN, LLC

nRM2028029792

(32.820096°, -103.595545°)

LEA COUNTY, NEW MEXICO

TOMAHAWK 19 STATE #001 BATTERY**REMEDATION EXTENTS AND CONFIRMATION SAMPLING MAP**

PROJECT NO: 212C-MD-03595

DATE: 11/08/2024

DESIGNED BY: CHT

Figure
5

Reclamation Report and Closure Request
Tomahawk 19 State #001 Battery Release
Incident ID# nRM2028029792

Maverick Permian, LLC
November 8, 2024

TABLES



TABLE 1

SOIL ASSESSMENT LOCATIONS
INCIDENT NRM2028029792
MAVERICK PERMIAN, LLC
TOMAHAWK 19 STATE #001 BATTERY RELEASE
LEA COUNTY, NEW MEXICO

Boring ID	Date	Latitude	Longitude
AH-1	10/30/2020	32.820291	-103.595581
AH-2	10/30/2020	32.820102	-103.595442
AH-3	10/30/2020	32.820015	-103.595565
AH-4	10/30/2020	32.820093	-103.595671
Floor-1	12/29/2020	32.820102	-103.595545
Floor-2	12/29/2020	32.820092	-103.595491
Trench-1	3/10/2021	32.820083	-103.595510



TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT SAMPLING - INCIDENT nRM2028029792
MAVERICK PERMIAN, LLC
TOMAHAWK 19 STATE #001 BATTERY RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
		feet bgs	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	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			600		10								50							100		
AH-1	10/30/2020	0.0 - 0.5	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-1	10/30/2020	0.0 - 0.5	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-1	10/30/2020	0.0 - 0.5	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
AH-1	10/30/2020	0.0 - 0.5	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	
Floor-1	12/29/2020	0.5	1,220		0.926		24.9		53.2		64		143.026		1,110		26,700		5,960		33,770	
		1.0	4,800		0.363		2.55		3.13		5.99		12.033		134		6,860		1,880		8,874	
Floor-2	12/29/2020	1.0	640		< 0.050		0.394		3.44		8.25		12.084		376		16,200		3,100		19,676	
Trench-1	3/10/2021	0 - 1	64.0		< 0.050		0.386		1.54		3.76		5.686		21.1		677		111		809.1	
		1 - 2	64.0		< 0.050		0.166		0.581		0.786		1.533		< 10.0		344		56.7		400.7	
		2 - 3	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		19		< 10.0		19	
		3 - 4	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-	

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 300.0
2: Method 8021B
3: Method 8015M

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



TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SOIL CONFIRMATION SAMPLING - INCIDENT NRM2028029792
MAVERICK PERMIAN, LLC
TOMAHAWK 19 STATE #001 BATTERY RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)				
Reclamation Requirements (19.15.29 NMAC)			600		10								50							100		
BH 1	9/13/2024	4.0 - 4.5	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH 2	9/13/2024	4.0 - 4.5	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH 3	9/13/2024	4.0 - 4.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH 4	9/13/2024	4.0 - 4.5	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		54.9		<10.0	54.9		
BH 5	9/13/2024	4.0 - 4.5	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH 6	9/13/2024	4.0 - 4.5	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		15		<10.0	15		
BH 7	9/13/2024	4.0 - 4.5	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		67.2		<10.0	67.2		
BH 8	9/13/2024	4.0 - 4.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH 9	9/13/2024	4.0 - 4.5	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH 10	9/13/2024	4.0 - 4.5	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		50.7		<10.0	50.7		
BH 11	9/13/2024	4.0 - 4.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH 12	9/13/2024	4.0 - 4.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
BH 13	9/13/2024	4.0 - 4.5	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		30.5		<10.0	30.5		
BH 14	9/13/2024	4.0 - 4.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		13.4		<10.0	13.4		
BH 15	9/13/2024	4.0 - 4.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		25.7		<10.0	25.7		
BH 16	9/13/2024	4.0 - 4.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		24.7		<10.0	24.7		
SW 1	9/13/2024	0.0 - 4.0	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22.5		<10.0	22.5		
SW 2	9/13/2024	0.0 - 4.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		27.9		<10.0	27.9		
SW 3	9/13/2024	0.0 - 4.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		18.4		<10.0	18.4		
SW 4	9/13/2024	0.0 - 4.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		24.3		<10.0	24.3		
SW 5	9/13/2024	0.0 - 4.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		28.1		<10.0	28.1		
SW 6	9/13/2024	0.0 - 4.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		24.8		<10.0	24.8		
SW 7	9/13/2024	0.0 - 4.0	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		38.4		<10.0	38.4		

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 SM4500Cl-B

2: Method 8021B

3: Method 8015M

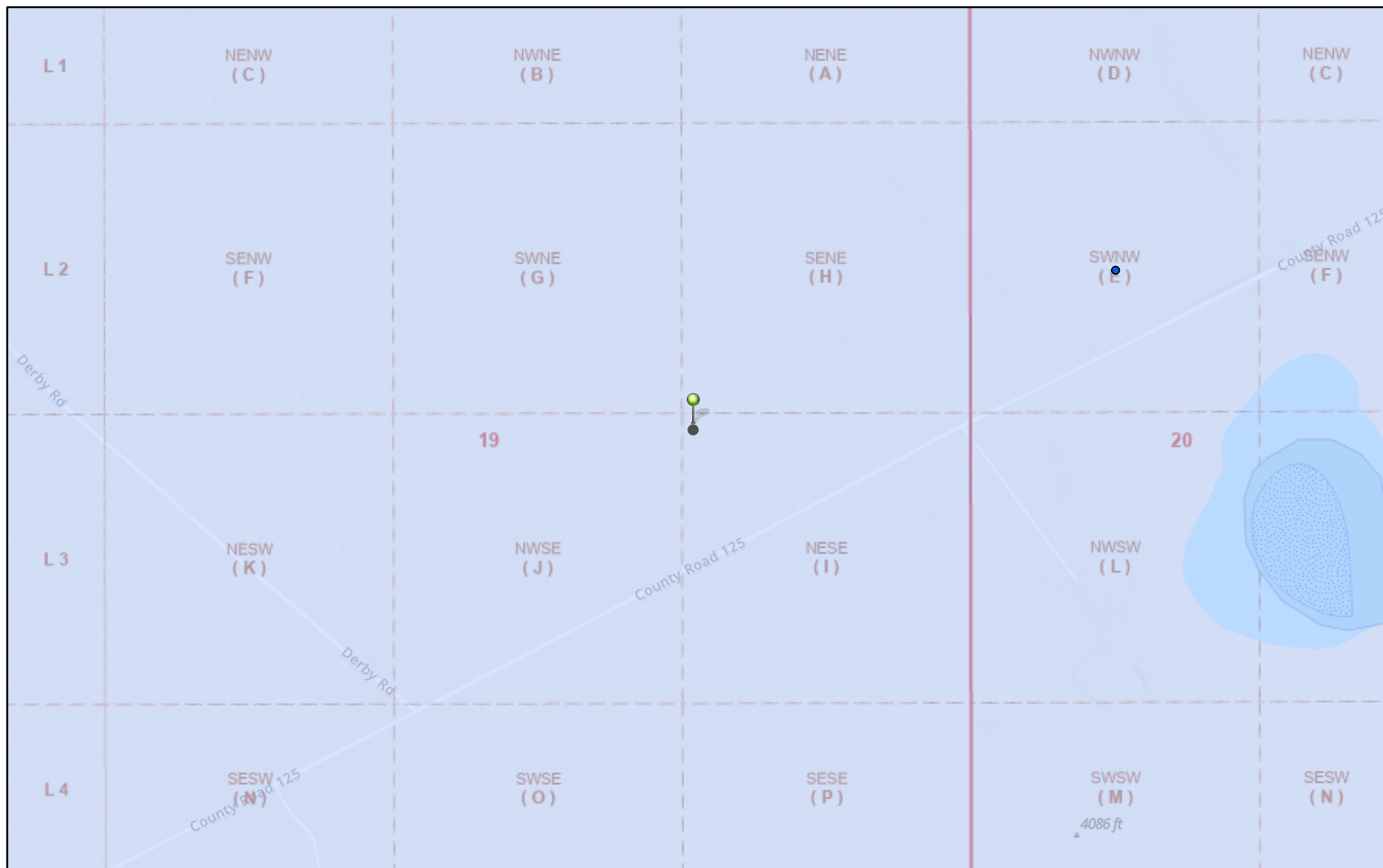
Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).
Laterally or vertically over excavated and resampled

Reclamation Report and Closure Request
Tomahawk 19 State #001 Battery Release
Incident ID# nRM2028029792

Maverick Permian, LLC
November 8, 2024

ATTACHMENT 1 – SITE CHARACTERIZATION DATA

OCD Well Locations



11/11/2024, 8:52:42 AM



Override 1



OSE Water PODs

Karst Occurrence Potential

Low

OSW Water Bodys



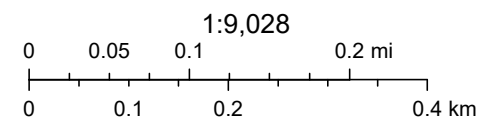
OSE Probable Playas



PLSS Second Division



PLSS First Division



BLM, OCD, New Mexico Tech, Esri, NASA, USGS, FEMA, USGS, Esri Community Maps Contributors, New Mexico State University, Texas Parks &

New Mexico Oil Conservation Division

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



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
L 11049		L	LE		SW	NW	20	17S	34E	632056.0	3632445.0 *		629	250	140	110

Average Depth to Water: 140 feet

Minimum Depth: 140 feet

Maximum Depth: 140 feet

Record Count: 1

Basin/County Search:
County: LE

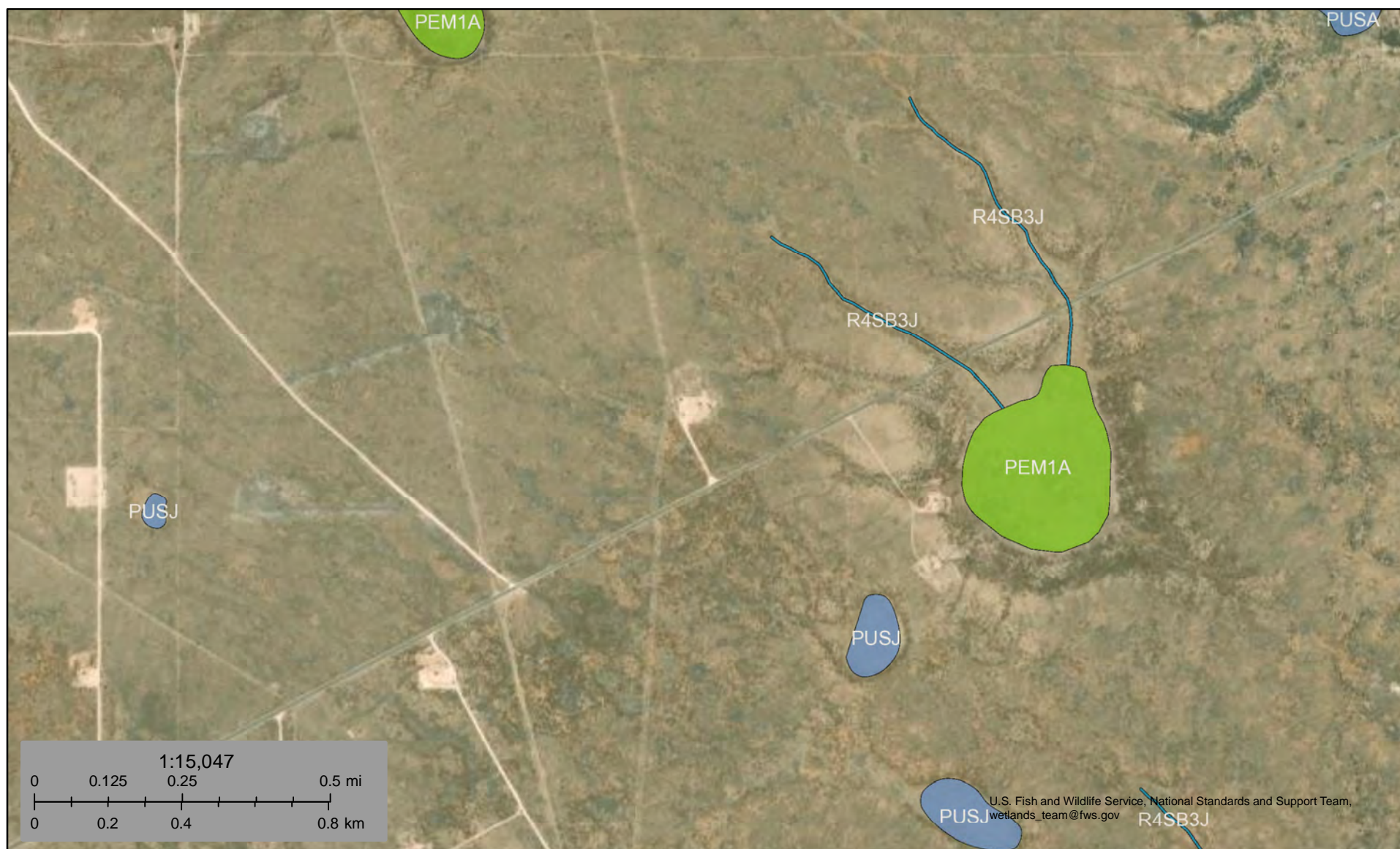
UTM Filters (in meters):
Easting: 631469.7
Northing: 3632216.7
Radius: 800

* 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.



Tomahawk 19 State #001 Wetlands



November 8, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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

National Flood Hazard Layer FIRMette



103°36'3"W 32°49'27"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000























103°35'25"W 32°48'57"N

Released to Imaging: 11/12/2024 10:27:20 AM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		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 Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
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
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



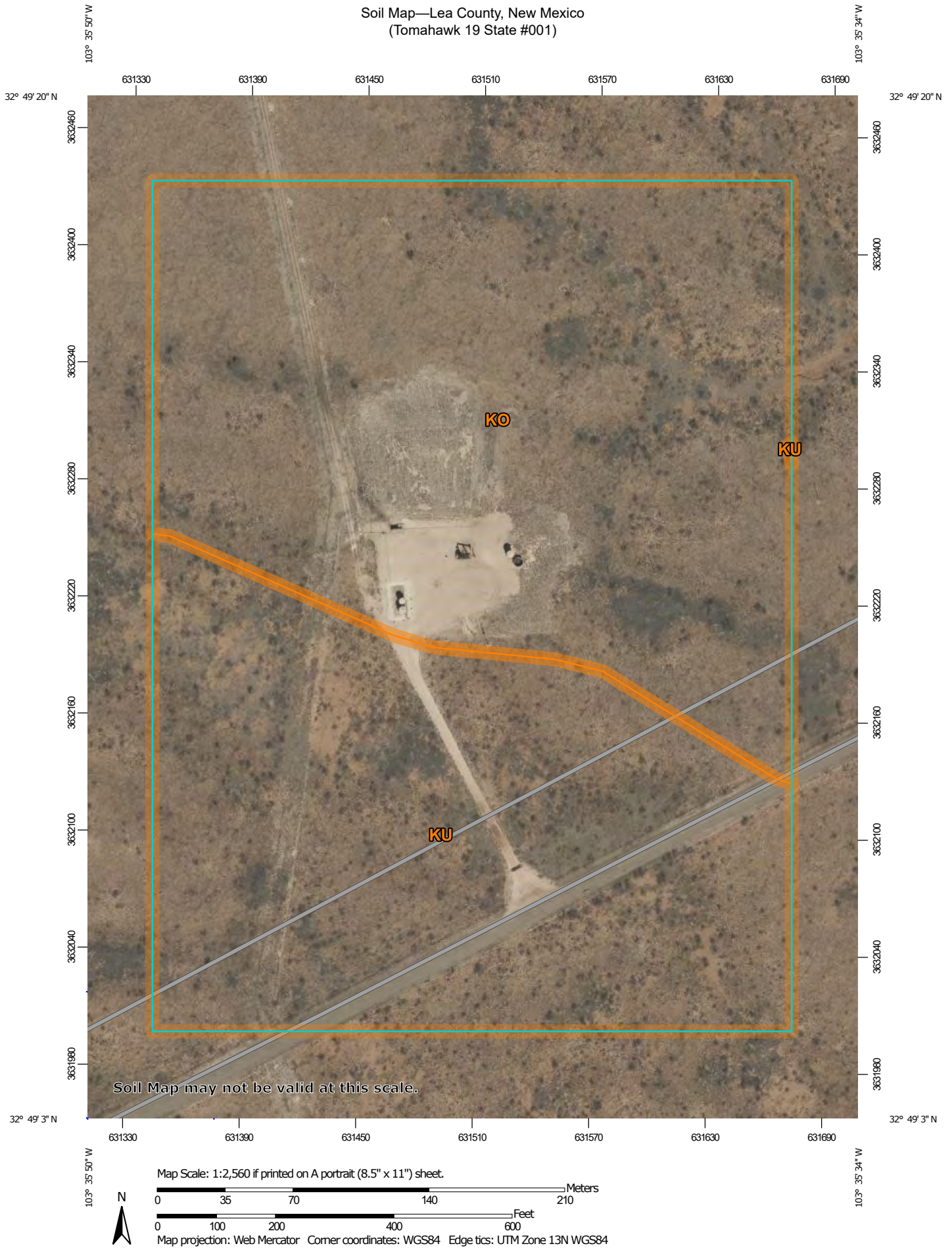
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 11/8/2024 at 5:22 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
(Tomahawk 19 State #001)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

12/4/2023
Page 1 of 3

Soil Map—Lea County, New Mexico
(Tomahawk 19 State #001)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

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

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

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

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	19.6	55.1%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	16.0	44.9%
Totals for Area of Interest		35.6	100.0%

Reclamation Report and Closure Request
Tomahawk 19 State #001 Battery Release
Incident ID# nRM2028029792

Maverick Permian, LLC
November 8, 2024

ATTACHMENT 2 – LABORATORY ANALYTICAL DATA



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

January 05, 2021

ANDREW RICHARDS

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: TOMAHAWK BATTERY #19 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/29/20 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 ANDREW RICHARDS
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	01/05/2021	Sampling Type:	Soil
Project Name:	TOMAHAWK BATTERY #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: FLOOR-1 (6") (H003350-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.926	0.500	12/29/2020	ND	2.03	101	2.00	1.47	
Toluene*	24.9	0.500	12/29/2020	ND	1.96	98.0	2.00	0.781	QM-07
Ethylbenzene*	53.2	0.500	12/29/2020	ND	2.02	101	2.00	1.20	QM-07
Total Xylenes*	64.0	1.50	12/29/2020	ND	5.77	96.1	6.00	0.989	QM-07
Total BTX	143	3.00	12/29/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	12/30/2020	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1110	50.0	12/30/2020	ND	218	109	200	0.555		
DRO >C10-C28*	26700	50.0	12/30/2020	ND	212	106	200	1.60		
EXT DRO >C28-C36	5960	50.0	12/30/2020	ND						

Surrogate: 1-Chlorooctane 341 % 44.3-144

Surrogate: 1-Chlorooctadecane 812 % 42.2-156

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:

Conoco Phillips - Hobbs
 ANDREW RICHARDS
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	01/05/2021	Sampling Type:	Soil
Project Name:	TOMAHAWK BATTERY #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: FLOOR-1 (12") (H003350-02)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.363	0.050	12/30/2020	ND	2.03	101	2.00	1.47	
Toluene*	2.55	0.050	12/30/2020	ND	1.96	98.0	2.00	0.781	
Ethylbenzene*	3.13	0.050	12/30/2020	ND	2.02	101	2.00	1.20	
Total Xylenes*	5.99	0.150	12/30/2020	ND	5.77	96.1	6.00	0.989	
Total BTEX	12.0	0.300	12/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 140 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	12/30/2020	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	134	50.0	12/30/2020	ND	218	109	200	0.555	
DRO >C10-C28*	6860	50.0	12/30/2020	ND	212	106	200	1.60	
EXT DRO >C28-C36	1880	50.0	12/30/2020	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 256 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 ANDREW RICHARDS
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	01/05/2021	Sampling Type:	Soil
Project Name:	TOMAHAWK BATTERY #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: FLOOR-2 (6") (H003350-03)

BTEx 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2020	ND	2.03	101	2.00	1.47	
Toluene*	0.394	0.050	12/30/2020	ND	1.96	98.0	2.00	0.781	
Ethylbenzene*	3.44	0.050	12/30/2020	ND	2.02	101	2.00	1.20	
Total Xylenes*	8.25	0.150	12/30/2020	ND	5.77	96.1	6.00	0.989	
Total BTEX	12.1	0.300	12/30/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 223 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	12/30/2020	ND	400	100	400	11.3	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	376	50.0	12/30/2020	ND	218	109	200	0.555	
DRO >C10-C28*	16200	50.0	12/30/2020	ND	212	106	200	1.60	
EXT DRO >C28-C36	3100	50.0	12/30/2020	ND					

Surrogate: 1-Chlorooctane 286 % 44.3-144

Surrogate: 1-Chlorooctadecane 519 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 ANDREW RICHARDS
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	01/05/2021	Sampling Type:	Soil
Project Name:	TOMAHAWK BATTERY #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: AH-1 (0-6") (H003350-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/29/2020	ND	2.03	101	2.00	1.47		
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781		
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20		
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989		
Total BTEX	<0.300	0.300	12/29/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/30/2020	ND	400	100	400	11.3		

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	01/04/2021	ND	218	109	200	0.555	QR-03
DRO >C10-C28*	<10.0	10.0	01/04/2021	ND	212	106	200	1.60	QR-03
EXT DRO >C28-C36	<10.0	10.0	01/04/2021	ND					QR-03

Surrogate: 1-Chlorooctane 82.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 ANDREW RICHARDS
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	01/05/2021	Sampling Type:	Soil
Project Name:	TOMAHAWK BATTERY #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: AH-2 (0-6") (H003350-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/29/2020	ND	2.03	101	2.00	1.47		
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781		
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20		
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989		
Total BTEX	<0.300	0.300	12/29/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/30/2020	ND	400	100	400	11.3		

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	12/30/2020	ND	218	109	200	0.555	
DRO >C10-C28*	<10.0	10.0	12/30/2020	ND	212	106	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	12/30/2020	ND					

Surrogate: 1-Chlorooctane 61.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 55.9 % 42.2-156

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:

Conoco Phillips - Hobbs
 ANDREW RICHARDS
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	01/05/2021	Sampling Type:	Soil
Project Name:	TOMAHAWK BATTERY #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: AH-3 (0-6") (H003350-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/29/2020	ND	2.03	101	2.00	1.47		
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781		
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20		
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989		
Total BTEX	<0.300	0.300	12/29/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/30/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2020	ND	218	109	200	0.555	
DRO >C10-C28*	<10.0	10.0	12/30/2020	ND	212	106	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	12/30/2020	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.3 % 42.2-156

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:

Conoco Phillips - Hobbs
 ANDREW RICHARDS
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	12/29/2020	Sampling Date:	12/29/2020
Reported:	01/05/2021	Sampling Type:	Soil
Project Name:	TOMAHAWK BATTERY #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA CO NM		

Sample ID: AH-4 (0-6") (H003350-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/29/2020	ND	2.03	101	2.00	1.47		
Toluene*	<0.050	0.050	12/29/2020	ND	1.96	98.0	2.00	0.781		
Ethylbenzene*	<0.050	0.050	12/29/2020	ND	2.02	101	2.00	1.20		
Total Xylenes*	<0.150	0.150	12/29/2020	ND	5.77	96.1	6.00	0.989		
Total BTEX	<0.300	0.300	12/29/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/30/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/30/2020	ND	218	109	200	0.555	
DRO >C10-C28*	<10.0	10.0	12/30/2020	ND	212	106	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	12/30/2020	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager




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

Notes and Definitions

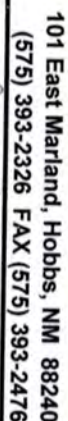
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

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



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

March 15, 2021

ANDREW RICHARDS

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: TOMAHAWK 19

Enclosed are the results of analyses for samples received by the laboratory on 03/10/21 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 ANDREW RICHARDS
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received: 03/10/2021
 Reported: 03/15/2021
 Project Name: TOMAHAWK 19
 Project Number: 212C-MD-02377
 Project Location: TOMAHAWK 19

Sampling Date: 03/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 1 (0-1) (H210599-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2021	ND	2.10	105	2.00	1.62	
Toluene*	0.386	0.050	03/12/2021	ND	2.05	102	2.00	2.21	
Ethylbenzene*	1.54	0.050	03/12/2021	ND	1.99	99.5	2.00	1.48	
Total Xylenes*	3.76	0.150	03/12/2021	ND	5.85	97.5	6.00	1.41	
Total BTEX	5.69	0.300	03/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/12/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.1	10.0	03/12/2021	ND	206	103	200	1.23	
DRO >C10-C28*	677	10.0	03/12/2021	ND	201	100	200	1.56	
EXT DRO >C28-C36	111	10.0	03/12/2021	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 ANDREW RICHARDS
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received: 03/10/2021
 Reported: 03/15/2021
 Project Name: TOMAHAWK 19
 Project Number: 212C-MD-02377
 Project Location: TOMAHAWK 19

Sampling Date: 03/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 1 (1-2) (H210599-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2021	ND	2.10	105	2.00	1.62	
Toluene*	0.166	0.050	03/12/2021	ND	2.05	102	2.00	2.21	
Ethylbenzene*	0.581	0.050	03/12/2021	ND	1.99	99.5	2.00	1.48	
Total Xylenes*	0.786	0.150	03/12/2021	ND	5.85	97.5	6.00	1.41	
Total BTX	1.53	0.300	03/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/12/2021	ND	400	100	400	3.92	

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	03/12/2021	ND	206	103	200	1.23	
DRO >C10-C28*	344	10.0	03/12/2021	ND	201	100	200	1.56	
EXT DRO >C28-C36	56.7	10.0	03/12/2021	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 ANDREW RICHARDS
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received: 03/10/2021
 Reported: 03/15/2021
 Project Name: TOMAHAWK 19
 Project Number: 212C-MD-02377
 Project Location: TOMAHAWK 19

Sampling Date: 03/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 1 (2-3) (H210599-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2021	ND	2.10	105	2.00	1.62		
Toluene*	<0.050	0.050	03/12/2021	ND	2.05	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	03/12/2021	ND	1.99	99.5	2.00	1.48		
Total Xylenes*	<0.150	0.150	03/12/2021	ND	5.85	97.5	6.00	1.41		
Total BTEX	<0.300	0.300	03/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/12/2021	ND	400	100	400	3.92		

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	03/12/2021	ND	206	103	200	1.23	
DRO >C10-C28*	19.0	10.0	03/12/2021	ND	201	100	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	03/12/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Conoco Phillips - Hobbs
 ANDREW RICHARDS
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received: 03/10/2021
 Reported: 03/15/2021
 Project Name: TOMAHAWK 19
 Project Number: 212C-MD-02377
 Project Location: TOMAHAWK 19

Sampling Date: 03/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 1 (3-4) (H210599-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2021	ND	2.10	105	2.00	1.62		
Toluene*	<0.050	0.050	03/12/2021	ND	2.05	102	2.00	2.21		
Ethylbenzene*	<0.050	0.050	03/12/2021	ND	1.99	99.5	2.00	1.48		
Total Xylenes*	<0.150	0.150	03/12/2021	ND	5.85	97.5	6.00	1.41		
Total BTEX	<0.300	0.300	03/12/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/12/2021	ND	400	100	400	3.92		

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	03/12/2021	ND	206	103	200	1.23	
DRO >C10-C28*	<10.0	10.0	03/12/2021	ND	201	100	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	03/12/2021	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

[illegible]



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

September 18, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: TOMAHAWK 19 STATE #001

Enclosed are the results of analyses for samples received by the laboratory on 09/13/24 15:29.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 1 (H245603-01)

BTX 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	09/17/2024	ND	2.16	108	2.00	2.64		
Toluene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	3.12		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.14	107	2.00	3.13		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.40	107	6.00	3.23		
Total BTX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	200	99.8	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	197	98.4	200	0.0961	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 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
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 2 (H245603-02)

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	09/17/2024	ND	2.16	108	2.00	2.64		
Toluene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	3.12		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.14	107	2.00	3.13		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.40	107	6.00	3.23		
Total BTEx	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	200	99.8	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	197	98.4	200	0.0961	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 3 (H245603-03)

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	09/17/2024	ND	2.16	108	2.00	2.64		
Toluene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	3.12		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.14	107	2.00	3.13		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.40	107	6.00	3.23		
Total BTEx	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	200	99.8	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	197	98.4	200	0.0961	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 4 (H245603-04)

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	09/17/2024	ND	2.16	108	2.00	2.64		
Toluene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	3.12		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.14	107	2.00	3.13		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.40	107	6.00	3.23		
Total BTEx	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	200	99.8	200	2.67	
DRO >C10-C28*	54.9	10.0	09/16/2024	ND	197	98.4	200	0.0961	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 5 (H245603-05)

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	09/17/2024	ND	2.16	108	2.00	2.64		
Toluene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	3.12		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.14	107	2.00	3.13		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.40	107	6.00	3.23		
Total BTEx	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	200	99.8	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	197	98.4	200	0.0961	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 6 (H245603-06)

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	09/17/2024	ND	2.16	108	2.00	2.64		
Toluene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	3.12		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.14	107	2.00	3.13		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.40	107	6.00	3.23		
Total BTEx	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	200	99.8	200	2.67	
DRO >C10-C28*	15.0	10.0	09/16/2024	ND	197	98.4	200	0.0961	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 7 (H245603-07)

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	09/17/2024	ND	2.16	108	2.00	2.64		
Toluene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	3.12		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.14	107	2.00	3.13		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.40	107	6.00	3.23		
Total BTEx	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	200	99.8	200	2.67	
DRO >C10-C28*	67.2	10.0	09/16/2024	ND	197	98.4	200	0.0961	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 8 (H245603-08)

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	09/17/2024	ND	2.16	108	2.00	2.64		
Toluene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	3.12		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.14	107	2.00	3.13		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.40	107	6.00	3.23		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	200	99.8	200	2.67	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	197	98.4	200	0.0961	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 9 (H245603-09)

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	09/17/2024	ND	2.16	108	2.00	2.64		
Toluene*	<0.050	0.050	09/17/2024	ND	2.12	106	2.00	3.12		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.14	107	2.00	3.13		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.40	107	6.00	3.23		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	200	99.8	200	2.67		
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	197	98.4	200	0.0961		
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND						

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 10 (H245603-10)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	50.7	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 11 (H245603-11)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 12 (H245603-12)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	<10.0	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 13 (H245603-13)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/16/2024	ND	400	100	400	3.92	

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	30.5	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 14 (H245603-14)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	13.4	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 63.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 15 (H245603-15)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	25.7	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 16 (H245603-16)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	24.7	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 1 (H245603-17)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	22.5	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 65.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 49.1-148

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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 2 (H245603-18)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	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	64.0	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	27.9	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 3 (H245603-19)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	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	64.0	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	18.4	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 68.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 4 (H245603-20)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	64.0	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	24.3	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 5 (H245603-21)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	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	64.0	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	28.1	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 71.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 6 (H245603-22)

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	09/16/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/16/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/16/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/16/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	64.0	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/16/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	24.8	10.0	09/16/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/16/2024	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Analytical Results For:

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

Received:	09/13/2024	Sampling Date:	09/13/2024
Reported:	09/18/2024	Sampling Type:	Soil
Project Name:	TOMAHAWK 19 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02473	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 7 (H245603-23)

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	09/17/2024	ND	2.14	107	2.00	0.766		
Toluene*	<0.050	0.050	09/17/2024	ND	2.23	112	2.00	0.940		
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	2.25	113	2.00	1.00		
Total Xylenes*	<0.150	0.150	09/17/2024	ND	6.94	116	6.00	0.674		
Total BTEX	<0.300	0.300	09/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	80.0	16.0	09/16/2024	ND	400	100	400	3.92		

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	09/17/2024	ND	194	96.9	200	2.79	
DRO >C10-C28*	38.4	10.0	09/17/2024	ND	199	99.7	200	8.63	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Company Name: Tehra/eh

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: TetraTech		P.O. #:		BILL TO								ANALYSIS REQUEST							
Project Manager: Chuck Terhune		Company: TetraTech																	
Address:		Attn: Chuck T.																	
City:		Address: Chuck T.																	
State:		City:																	
Zip:		State:																	
Phone #:		Fax #:																	
Project #:		Project Owner:																	
Project Name: Navent Natural Resources		City:																	
Project Location: Tombahawk 19 State H001		State:																	
Phone #:		Zip:																	
Fax #:		Phone #:																	
Sample Name: AK		Fax #:																	

FOR LAB USE ONLY		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		BTEx		TPH		Chloride	
Lab I.D.		Sample I.D.																															
11		BH 11		1						X								9/13		1:25		X		X		X							
12		BH 12																		1:30													
13		BH 13																		1:35													
14		BH 14																		1:45													
15		BH 15																		1:50													
16		BH 16																		2:00													
17		SW 1																		2:15													
18		SW 2																		2:30													
19		SW 3																		2:35													
20		SW 4																		2:45													

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Relinquished By: Adrian Garcia		Date: 9/13		Received By: Adrian Garcia		Date: 9/13		Time: 15:10		Time: 15:39		Observed Temp. °C: 21°C		Corrected Temp. °C: 15°C		Sample Condition: Cool Intact		CHECKED BY: AP		Turnaround Time: Standard		Thermometer ID #140		Correction Factor -0.5°C		Bacteria (only) Sample Condition: Cool Intact		Observed Temp. °C:		Corrected Temp. °C:	
Relinquished By: Adrian Garcia		Date: 9/13		Received By: Adrian Garcia		Date: 9/13		Time: 15:10		Time: 15:39		Observed Temp. °C: 21°C		Corrected Temp. °C: 15°C		Sample Condition: Cool Intact		CHECKED BY: AP		Turnaround Time: Standard		Thermometer ID #140		Correction Factor -0.5°C		Bacteria (only) Sample Condition: Cool Intact		Observed Temp. °C:		Corrected Temp. °C:	

REMARKS: **adrian.garcia@tetratech.com**

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:

All Results are emailed. Please provide Email address:

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

Reclamation Report and Closure Request
Tomahawk 19 State #001 Battery Release
Incident ID# nRM2028029792

Maverick Permian, LLC
November 8, 2024

ATTACHMENT 3 – PHOTOGRAPHIC DOCUMENTATION



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of Tomahawk 19 Battery, looking north.	1
	SITE NAME	ConocoPhillips Tomahawk 19 Battery Release	12-15-2020



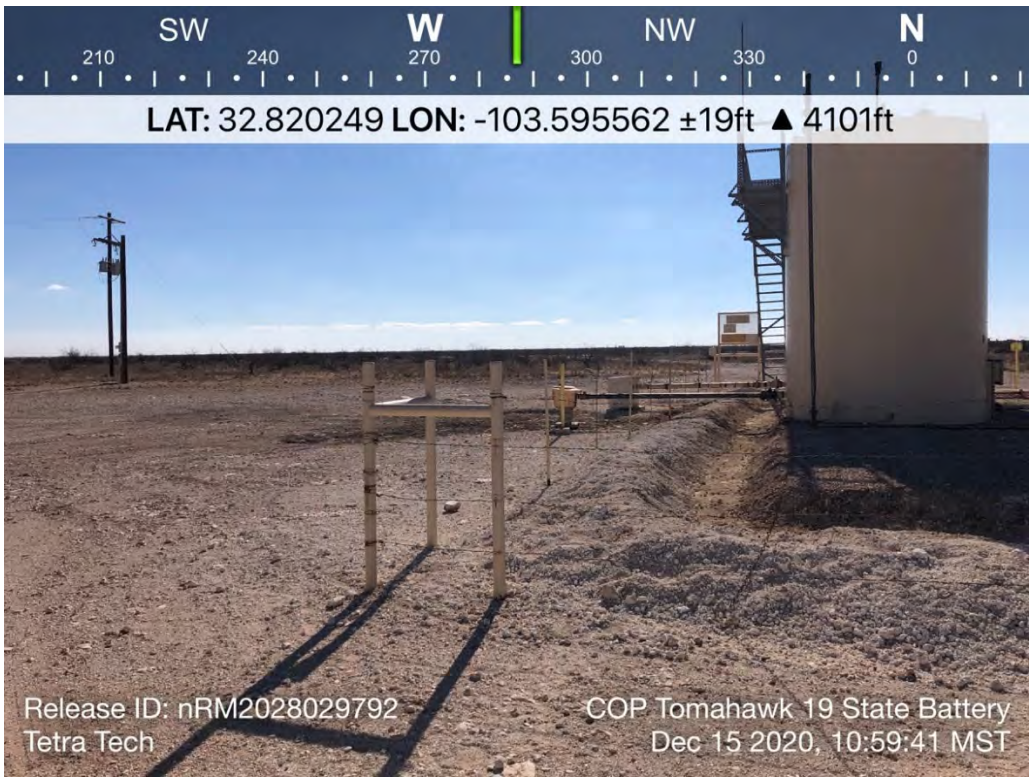
TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of Tomahawk 19 Battery and the breached area of berm, looking north.	2
	SITE NAME	ConocoPhillips Tomahawk 19 Battery Release	12-15-2020



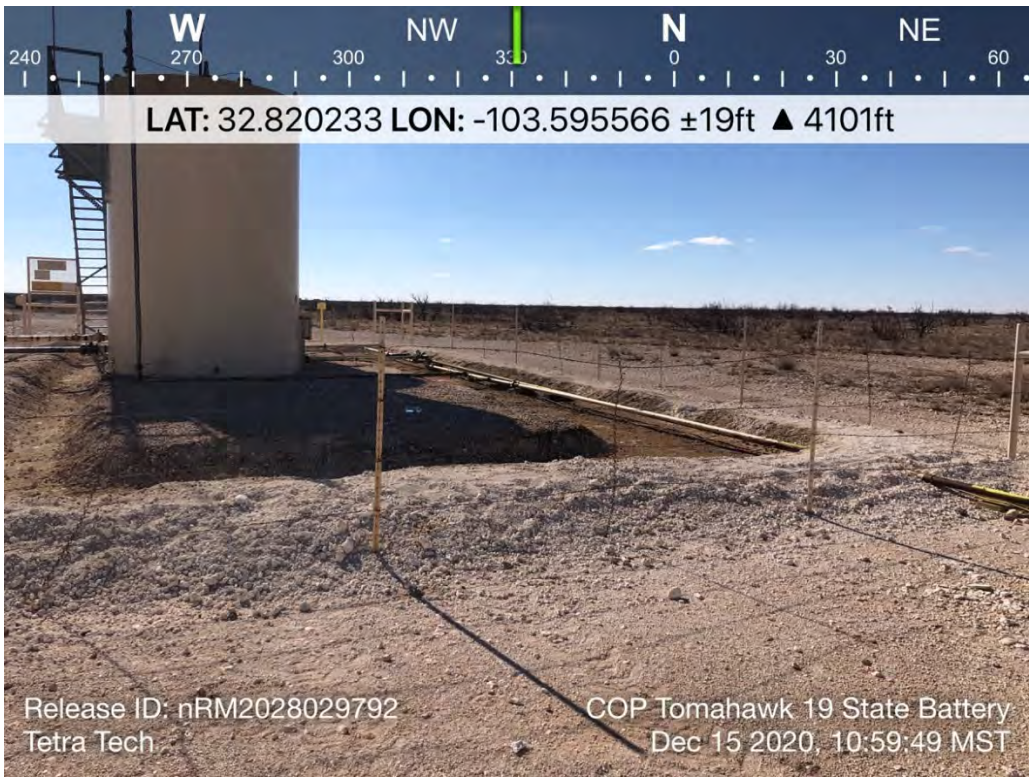
TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of Tomahawk 19 Battery and the breached area of berm, looking northeast.	3
	SITE NAME	ConocoPhillips Tomahawk 19 Battery Release	12-15-2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of Tomahawk 19 Battery and the breached area of berm, looking north.	4
	SITE NAME	ConocoPhillips Tomahawk 19 Battery Release	12-15-2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of Tomahawk 19 Battery and the breached area of berm, looking west.	5
	SITE NAME	ConocoPhillips Tomahawk 19 Battery Release	12-15-2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of Tomahawk 19 Battery, looking northwest.	6
	SITE NAME	ConocoPhillips Tomahawk 19 Battery Release	12-15-2020



















Lovington, NM, United States

Lat 32.820142, Long -103.595597

08/28/2024 03:19 PM GMT-06:00



Lovington, NM, United States

Lat 32.772902, Long -103.628887

08/28/2024 03:44 PM GMT-06:00



Lovington, NM, United States

Lat 32.820143, Long -103.595577

08/28/2024 03:32 PM GMT-06:00























Reclamation Report and Closure Request
Tomahawk 19 State #001 Battery Release
Incident ID# nRM2028029792

Maverick Permian, LLC
November 8, 2024

ATTACHMENT 4 – SEED MIXTURE

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

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
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
Forbs:			
Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
Total PLS/acre		18.0	

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>.



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 401172

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	401172
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2028029792
Incident Name	NRM2028029792 TOMAHAWK 19 STATE #001 @ 30-025-34583
Incident Type	Oil Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-34583] TOMAHAWK 19 STATE #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	TOMAHAWK 19 STATE #001
Date Release Discovered	09/25/2020
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil 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	Cause: Equipment Failure Tank (Any) Crude Oil Released: 28 BBL Recovered: 10 BBL Lost: 18 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
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)	Not answered.

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QUESTIONS, Page 2

Action 401172

QUESTIONS (continued)

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Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 11/11/2024
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QUESTIONS, Page 3

Action 401172

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	401172
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
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 1000 (ft.) and ½ (mi.)
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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>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.</i>	
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)	4800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	33770
GRO+DRO (EPA SW-846 Method 8015M)	27810
BTEX (EPA SW-846 Method 8021B or 8260B)	143.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.9
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/28/2024
On what date will (or did) the final sampling or liner inspection occur	09/13/2024
On what date will (or was) the remediation complete(d)	09/05/2024
What is the estimated surface area (in square feet) that will be reclaimed	2750
What is the estimated volume (in cubic yards) that will be reclaimed	468
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 401172

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	401172
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site 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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 11/11/2024
<i>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.</i>	

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QUESTIONS, Page 5

Action 401172

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 401172
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 401172

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
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	401172
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	382523
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/13/2024
What was the (estimated) number of samples that were to be gathered	23
What was the sampling surface area in square feet	2750

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	0
What was the total volume (cubic yards) remediated	0
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	2750
What was the total volume (in cubic yards) reclaimed	468
Summarize any additional remediation activities not included by answers (above)	This submittal is to demonstrate that remediation and reclamation of the deferred release has been completed. In conjunction with the reclamation of the deferred incident, The facility was also deconstructed, cleared of all equipment and piping, cleared of caliche base, and reclaimed. The facility/well pad reclamation will be submitted separately by Maverick.

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: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 11/11/2024
--	--

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QUESTIONS, Page 7

Action 401172

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	401172
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	2750
What was the total volume of replacement material (in cubic yards) for this site	450
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	08/28/2024
Summarize any additional reclamation activities not included by answers (above)	This submittal is to demonstrate that remediation and reclamation of the deferred release has been completed. In conjunction with the reclamation of the deferred incident, The facility was also deconstructed, cleared of all equipment and piping, cleared of caliche base, and reclaimed. The facility/well pad reclamation will be submitted separately by Maverick.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
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: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 11/11/2024

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QUESTIONS, Page 8

Action 401172

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 401172
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 401172

CONDITIONS

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	401172
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment; or if the location fails to revegetate properly. In addition, the OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	11/12/2024
amaxwell	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	11/12/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeded activities, inspections, and final pictures when revegetation is achieved.	11/12/2024