



August 23, 2024

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Remediation/Reclamation Report and Closure Request
Maverick Permian, LLC
MCA Unit #265 Test Line Release
Unit Letter L, Section 20, Township 17 South, Range 32 East
Lea County, New Mexico
Incident ID# nGRL1131428247**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by ConocoPhillips (COP) to assess a historical release that occurred from a steel test line approximately 100 feet north of the Maljamar Cooperative Agreement (MCA) Unit #265 well (API No. 30-025-23686). The release footprint is located at 32.817169°, -103.793412° in Public Land Survey System (PLSS) Unit Letter L, Section 20, Township 17 South, Range 32 East, in Lea County, New Mexico (Site), as shown in **Figure 1** and **Figure 2**. Maverick Permian, LLC (Maverick) Purchased the Site and took over operation of the Site in June 2022 and subsequently retained Tetra Tech to complete the remediation of the Site.

BACKGROUND

According to the State of New Mexico C-141 Initial Report, the release was discovered on October 25, 2011. The release occurred as the result of a test line rupture that released approximately 8 barrels (bbls) of oil and 6 bbls of produced water, affecting an approximately 25-foot by 60-foot area of pasture reportedly located approximately 100' north of the MCA Unit #265 well. According to the C-141 Initial Report, no vacuum trucks were available to recover fluids upon discovery of the release. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on October 28, 2011, and subsequently assigned the release Incident ID nGRL1131428247. The initial C-141 Initial Report is available from the NMOCD ePermitting portal under the incident ID.

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 summarized below and included in **Attachment 1**.

Site Characterization Summary

Shallowest Depth to Groundwater (feet bgs)	> 138 feet bgs
Method to determine depth to groundwater	Direct Measurement
Did this release impact groundwater or surface water	No
Distance to a continuously flowing watercourse	> 5 Miles
Distance to any lakebed, sinkhole, or playa lake	1 to 5 Miles
Distance to any occupied permanent residence, school, hospital, institution, or church	1 to 5 Miles

Tetra Tech, Inc.

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 Incident ID: nGRL1131428247

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Site Characterization Summary

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

Depth to Groundwater

According to the New Mexico Office of State Engineer's (NMOSE) Reporting System, there are no water wells within ½-mile of the Site.

On August 3, 2005, BBC International Corporation (BBC) and White Drilling Company, Inc. (White) mobilized to the MCA Battery #1 site and installed a test boring to 138 feet below ground surface (bgs) at 32.811167°, -103.191444°, approximately 0.43-miles south-southeast of the Site. According to the BBC test boring information and the NMOSE Well Record, groundwater was not encountered in the upper 138 feet bgs, confirming that groundwater is not present within the upper 100 feet bgs at the Site. The BBC Summary of Test Boring report, boring log, and NMOSE Well Log are provided in **Attachment 2**.

Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as Pyote Soils and Dune Land, which is classified as a sand soil.

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:

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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

SITE ASSESSMENT

The C-141 provided the approximate location of the release. Given the age of this release, a desktop review of available historical imagery indicated discoloration of soils in the vicinity of the release area in post-2012 imagery, and no additional evidence of remedial activities conducted in the area in the subsequent imagery. On behalf of ConocoPhillips, Tetra Tech conducted a visual Site inspection in July 2020 to evaluate current Site conditions. Surficial staining and asphaltic soil were noted in the identified release area footprint in the pasture and distressed and dead vegetation. Photographic documentation of the July 2020 Site visit is included in **Attachment 3**.

Site Assessment Sampling

In order to delineate the release extent, Tetra Tech mobilized to the Site and conducted soil sampling on December 10, 2020, on behalf of COP. The release area footprint was inaccessible with a drilling rig due to the abundance of surface and subsurface lines. A total of six (6) hand auger borings (AH- 1 through AH-6) were advanced, four (4) (AH-1 through AH-4) along the perimeter of the release extent (to the north, east, south, and west, respectively) and two (2) (AH-5 and AH-6) within the release footprint. The perimeter borings (AH-1 through AH-4) were installed to depths of 2 feet bgs each. Interior boring AH-6 was installed to a depth of 5 feet bgs, but interior boring AH-5 was terminated at a depth of 3 feet bgs due to the auger refusal. Soils at the Site consist of light brown to tan loose silty sands from the surface down to 5 feet bgs in the vicinity of boring location AH-6, while in the vicinity of boring location AH-5 soils are underlain by a lithified sandstone layer at 3 feet bgs. **Figure 3** depicts the release extent and the 2020 soil boring locations, and GPS coordinates for the boring locations are presented in **Table 1**.

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A total of thirteen (13) samples were collected from the six (6) borings (AH-1 through AH-6) and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Nashville, Tennessee to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Site Assessment Sampling Results

Table 2 summarizes the results from the December 2020 soil sampling event screened against Reclamation Requirements. The analytical results reported concentrations of TPH as greater than the Reclamation Requirement of 100 mg/kg in the 0–1-foot bgs and 2-3 feet bgs sample intervals at AH-5 as well as in the 0–1-foot bgs sample interval at location AH-6. There were no other constituents that reported laboratory analytical results as greater than the TPH Reclamation Requirement. The analytical results associated with the remainder of the samples analyzed reported BTEX and chloride concentrations as less than respective Reclamation Requirements.

Although the laboratory reported analytical results for TPH as well above the Reclamation Requirement in the terminal sample (2-3 feet bgs) at sample location AH-5, the release extent was vertically delineated in the deeper interior boring location AH-6. Therefore, vertical and horizontal delineation was considered achieved during the December 2020 Site assessment.

REMEDIATION WORK PLAN

Proposed Remediation Strategy

In the Tetra Tech Release characterization and Remediation Work Plan for the Site dated March 11, 2011, ConocoPhillips proposed to excavate and dispose of the remaining impacted materials using heavy equipment to 4 feet below the surrounding surface or until a representative sample from the sidewalls and base of the excavation reported constituent concentrations as less than Reclamation Requirements or RRALs, as applicable. Upon receipt of final confirmation sample results, ConocoPhillips proposed to notify the MNOCD and then backfill the excavation with clean material to grade.

Proposed Alternative Confirmation Sampling Plan

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposed an alternative confirmation sampling plan, including five (5) confirmation floor samples and nine (9) confirmation sidewall samples for verification of remedial activities for the excavation encompassing a surface area of approximately 2,120 square feet. The proposed confirmation sidewall and floor samples are representative of no more than approximately 500 square feet of excavated area. The alternative confirmation sampling plan was rejected as a condition of the MNOCD Remediation Work Plan Approval on April 25, 2023.

MNOCD Remediation Work Plan Approval

The MNOCD conditionally approved the ConocoPhillips Remediation Work Plan on April 25, 2023, with the following conditions:

- *"Please make sure the floor confirmation samples are delineated/excavated to meet closure criteria standards for proven depth to water determination."*
- *"When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to groundwater within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less."*

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- *"Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release."*
- *"The request for variance for an alternative confirmation sampling plan is not approved."*

To address the conditions of the Remediation Work Plan Approval, Tetra Tech demonstrated the depth to groundwater within ½ mile of the site with data less than 25 years old, and the test boring summary bore log, and NMOSE Well Report is provided in **Attachment 2**. Sidewall samples along the edges of the excavation were delineated to 600 mg/kg for chloride, and 100 mg/kg for TPH to define the edge of the release during the remediation described below, and confirmation sampling was conducted in accordance with the requirements of 19.15.29.12.

REMEDICATION AND CONFIRMATION SAMPLING

Excavation activities commenced on April 9, 2024, and concluded on April 19, 2024. Maverick's subcontractor, McNabb Partners (McNabb) used heavy equipment to excavate impacted soil from the remediation area to depths of 5 feet bgs. McNabb excavated a total of 768 cubic yards of contaminated soil from an approximate total area of 2,200 square feet. Excavated material was transported to R360 Halfway Disposal and Landfill in Hobbs, New Mexico, for offsite disposal. Photographic documentation showing the open excavation is provided in **Attachment 3**.

Confirmation Sampling Notification

On April 11, 2024, Tetra Tech notified the NMOCD of the anticipated initial confirmation sampling through the submission of a C-141N Sampling Notification submission in the NMOCD Permitting portal and provided subsequent C-141N Sampling Notification submissions through the NMOCD Permitting portal up to and including final confirmation sampling at the Site performed on April 19, 2024. Sampling notification was conducted in accordance with 19.15.29.12(D)(1)(a) NMAC and the Energy, Minerals and Natural Resources Department (EMNRD) *Notice Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions* dated December 1, 2023. Sample notifications are available in the NMOCD Portal under Incident ID nGRL1131428247.

Confirmation Sampling

Upon reaching the excavation's final lateral and vertical excavation extents, Tetra Tech collected 25 final confirmation samples, including 13 five-point composite floor samples and 12 five-point composite side wall samples from the excavated areas. The remediation excavation concluded as two (2) 4-foot-deep excavations on the northwest and southeast sides of the remediation, two (2) 7-foot-deep excavations on the northeast and central portion of the remediation with one (1) 8-foot-deep excavation in the center on the south side of the remediation. The excavations covered an area of approximately 2,200 square feet with approximately 1,500 square feet of sidewall for a total area of 3,700 square feet from which 25 final confirmation samples were collected for a sampling density of approximately one sample per 148 square feet.

Samples were submitted to Cardinal Laboratory in Hobbs, New Mexico, for the analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B. Laboratory analytical results for final confirmation samples reported concentrations of BTEX, chloride, and TPH as less than respective Reclamation Requirements or RRALs, as applicable, demonstrating clean margins.

Figure 4 presents the remediation extents and confirmation sampling locations. Shallow confirmation sample laboratory analytical results screened against Reclamation Requirements are summarized in **Table 3**, Deep confirmation sample analytical results screened against RRALs are summarized in **Table 4**, and laboratory

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analytical data packages including chain of custody documentation remediation confirmation sampling are included in **Attachment 4**.

Excavation Backfill

Between April 22 and 24, 2024, subsequent to the receipt of confirmation sample results, McNabb completed backfilling of the excavated areas with 628 cubic yards of clean topsoil sourced from the nearby Boyd Pit.

Reclamation and Revegetation

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

Subsequent to restoring topography and contouring the disturbed areas, disturbed pasture areas of the Site were seeded with New Mexico State Land Office (NMSLO) Sandy (S) Sites Seed Mixture to aid in vegetation growth to complete reclamation in accordance with the Site soil profile detailed above in the Site Characterization Section. Seeding was broadcast and harrowed per the specifications for broadcast application in pound pure live seed per acre according to the NMSLO Seed Mix Sandy (S) data sheet provided in **Attachment 5**.

Site inspections will be performed periodically to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the Bureau of Land Management will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate.

Revegetation will be considered complete once uniform vegetative cover has been established that reflects a 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 or a vegetative cover approved by BLM. Upon completion of Revegetation, Tetra Tech will prepare and submit a Revegetation Report in accordance with the *EMNRD Notice Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions* requirements.

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CONCLUSION

Based on the results of the confirmation sampling, the impacted soil within the release footprint with TPH, BTEX, or chloride concentrations greater than RRALs and/or Reclamation Requirements, as applicable, have been removed and properly disposed of offsite and the excavated area has been backfilled with clean soil, graded, and seeded. Therefore, Site remediation and reclamation is complete. A Revegetation Report for the Site will be submitted to the NMOCD under separate cover containing the NMOCD required information upon completion of revegetation. If you have any questions concerning the remediation activities for the Site, please contact Charles Terhune by email at Chuck.Terhune@tetrattech.com or by phone at (832) 252-2093.

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
Bureau of Land Management

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Maverick Permian, LLC
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Incident ID: nGRL1131428247

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LIST OF ATTACHMENTS

Figures

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

Tables

- Table 1 – Soil Assessment Locations
- Table 2 – Summary of Analytical Results – Soil Assessment Sampling
- Table 3 – Summary of Analytical Results – Shallow Remediation Confirmation Sampling
- Table 4 – Summary of Analytical Results – Deep Remediation Confirmation Sampling

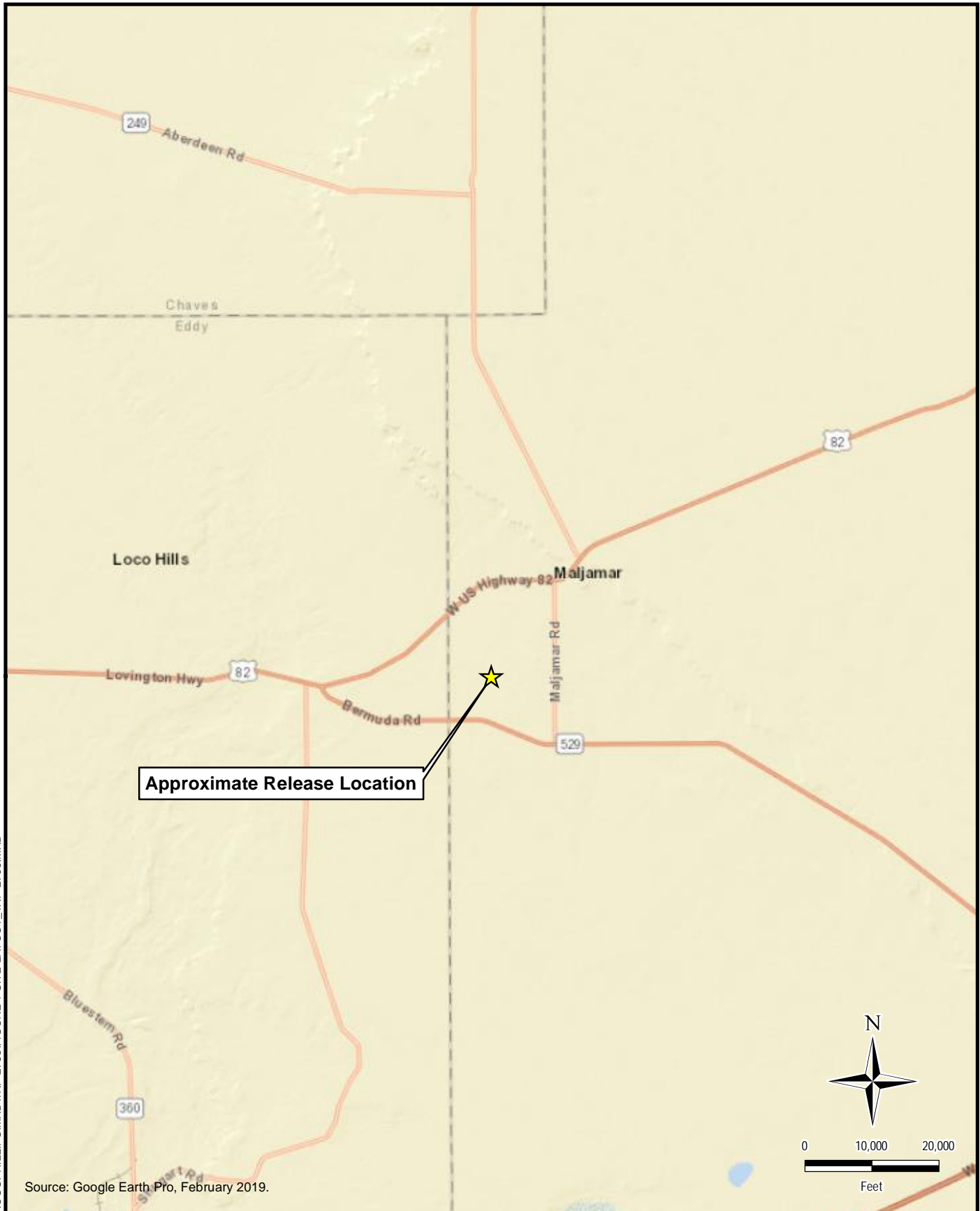
Attachments

- Attachment 1 – Site Characterization Data
- Attachment 2 – Bore Logs
- Attachment 3 – Photographic Documentation
- Attachment 4 – Laboratory Analytical Report
- Attachment 5 – Seed Mixture Details

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Maverick Permian, LLC
MCA Unit #265 Test Line Release
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August 23, 2024

FIGURES



Source: Google Earth Pro, February 2019.



TETRA TECH

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MAVERICK PERMIAN, LLC

nGRL1131428247
32.817169°, -103.793412°
LEA COUNTY, NEW MEXICO

**MCA 265 TEST LINE RELEASE
SITE LOCATION MAP**

PROJECT NO.: 212C-MD-03435

DATE: JANUARY 13, 2021

DESIGNED BY: AAM

Figure No.

1



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-2756\FIGURE 2 TOPO.1RP-2756.MXD

**TETRA TECH**

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MAVERICK PERMIAN, LLC

nGRL1131428247
32.817169°, -103.793412°
LEA COUNTY, NEW MEXICO

MCA 265 TEST LINE RELEASE
TOPOGRAPHIC MAP

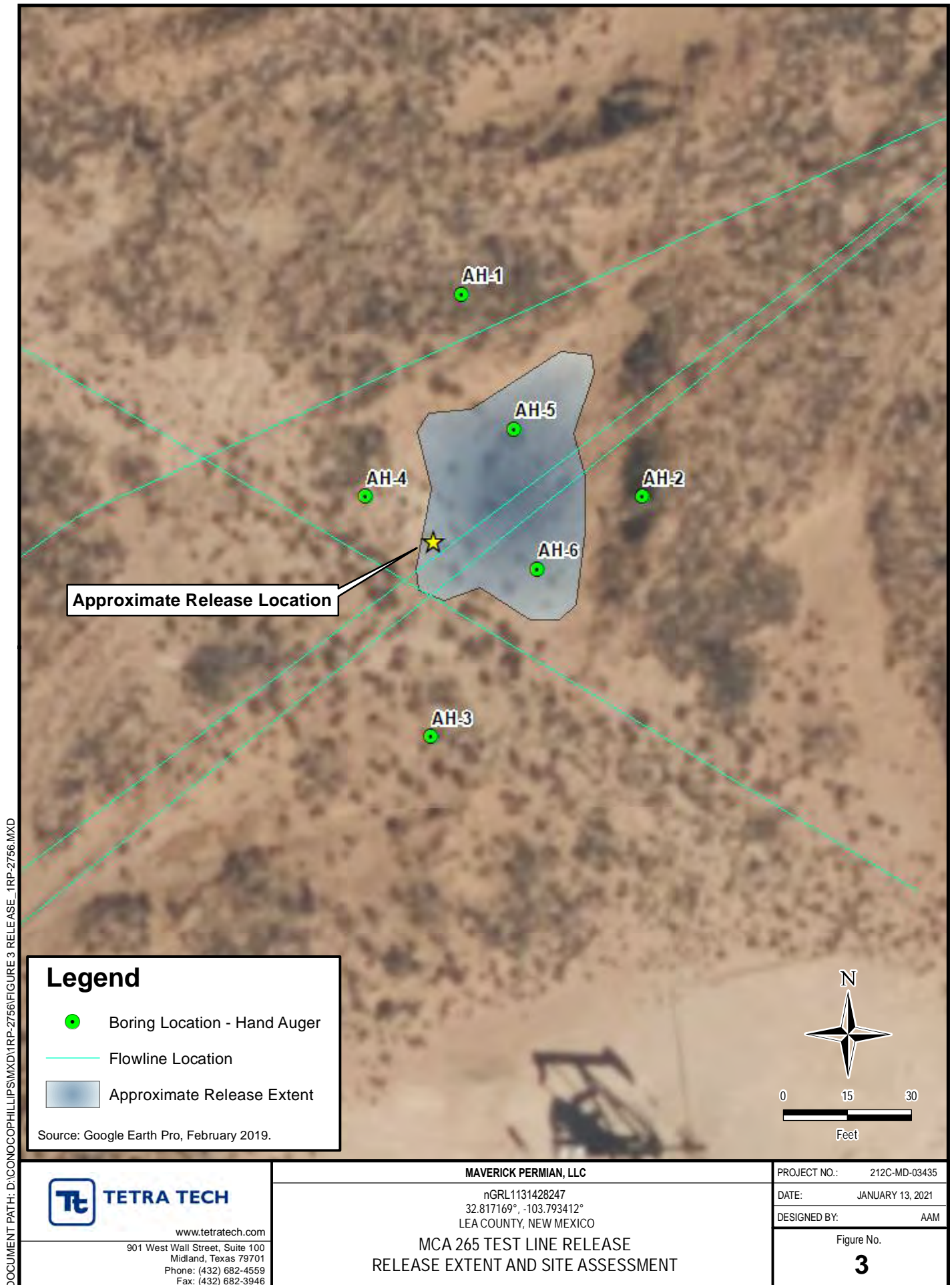
PROJECT NO.: 212C-MD-03435

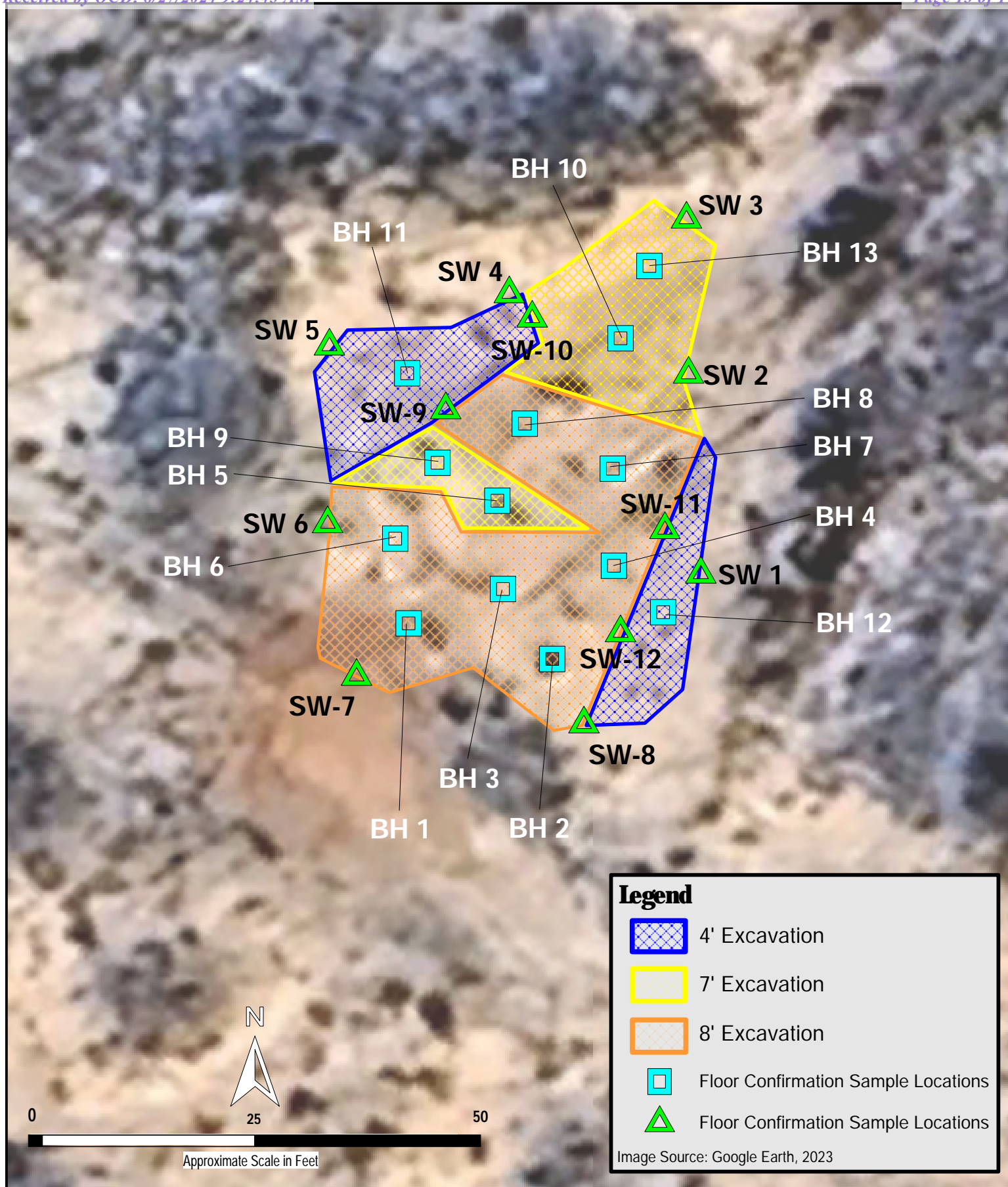
DATE: JANUARY 13, 2021

DESIGNED BY: AAM

Figure No.

2





TETRA TECH

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MAVERICK PERMIAN, LLC
NGRL1131428247

32.817169°, -103.793412°
Lea County, New Mexico

MCA UNIT #265 TEST LINE RELEASES
EXCAVATION AND CONFIRMATION SAMPLING

PROJECT NO: 212C-MD-03435
DATE: August 22, 2024
DESIGNED BY: CHT

Figure
4

Remediation/Reclamation Report and Closure Request
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TABLES

**TETRA TECH****TABLE 1**

**SOIL ASSESSMENT LOCATIONS
INCIDENT NGRL1131428247
MAVERICK PERMIAN, LLC
MCA UNIT #265 TEST LINE RELEASE
LEA COUNTY, NEW MEXICO**

Boring ID	Date	Latitude	Longitude
AH - 1	12/10/2020	32.817328°	-103.793389°
AH - 2	12/10/2020	32.817197°	-103.793252°
AH - 3	12/10/2020	32.817044°	-103.793414°
AH - 4	12/10/2020	32.817199°	-103.793463°
AH - 5	12/10/2020	32.817241°	-103.793350°
AH - 6	12/10/2020	32.817151°	-103.793333°



TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT SAMPLING - INCIDENT NGRL1131428247
MAVERICK PERMIAN, LLC
MCA UNIT #265 TEST LINE 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		ORO		Total TPH (GRO+DRO+EXT DRO)
		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	mg/kg			
Reclamation Requirements (19.15.29 NMAC)			600		10							50							100		
AH-1	12/10/2020	0.0 - 1.0	< 24.5		<0.00273		<0.0136		<0.00682		<0.0178		-		< 6.82		2.1	J	6.67		8.77
	12/10/2020	1.0 - 2.0	< 21.6		<0.00121		<0.00606		<0.00303		<0.00788		-		< 3.03		7.67		27		34.67
AH-2	12/10/2020	0.0 - 1.0	< 20.1		<0.00101		0.00311	J	<0.00253		0.00182	J	0.00493	J	< 2.53		2.98	J	12.6		15.58
	12/10/2020	1.0 - 2.0	< 24.4		<0.00146		0.00202	J	<0.00366		<0.00952		0.00202	J	< 3.66		8.77		39.4		48.17
AH-3	12/10/2020	0.0 - 1.0	< 24.3		<0.00146		<0.00731		<0.00366		<0.00951		-		< 3.66		5.67	J3	6.01		11.68
	12/10/2020	1.0 - 2.0	< 23.2		<0.00134		<0.00671		<0.00336		<0.00872		-		< 3.36		23.4		10.3		33.7
AH-4	12/10/2020	0.0 - 1.0	< 24.5		<0.00149		<0.00744		<0.00372		<0.00967		-		< 3.72		< 4.91		0.686	J	0.686
	12/10/2020	1.0 - 2.0	< 24.4		<0.00151		<0.00753		<0.00377		<0.00979		-		< 3.77		< 4.87		0.723	J	0.723
AH-5	12/10/2020	0.0 - 1.0	< 24.4		<0.00146		<0.00729		<0.00365		<0.00948		-		< 3.65		422		1,700		2,122
	12/10/2020	2.0 - 3.0	< 232		0.743		1.31		17.8		30.7		50.553		839		11,800		9,970		22,609
AH-6	12/10/2020	0.0 - 1.0	< 20.2		<0.00204		0.00346	J	0.0209		0.0388		0.06316		1.35	J	3,630		3,760		7,391.35
	12/10/2020	2.0 - 3.0	113		<0.00128		0.00209	J	0.00205	J	0.00567	J	0.00981	J	< 3.20		22.7		33.1		55.8
	12/10/2020	4.0 - 5.0	2,350		<0.00226		<0.0113		<0.00566		<0.0147		-		< 5.66		162		143		305

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).

B: The same analyte was detected in the associated blank, result is biased high

J: The identification of the analyte is acceptable and the reported concentration is an estimate

J3: The associated batch QC was outside the established quality control range for precision



TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SHALLOW SOIL CONFIRMATION SAMPLING - INCIDENT NGRL1131428247
MAVERICK PERMIAN, LLC
MCA UNIT #265 TEST LINE 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 (GRO+DRO+EXT DRO)	
		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		
Reclamation Requirements (19.15.29 NMAC)			600		10								50							100		
SW 1	4/15/2024	0.0 - 4.0	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		18		11		29	
SW 2	4/15/2024	0.0 - 7.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 3	4/15/2024	0.0 - 7.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 4	4/15/2024	0.0 - 7.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 5	4/15/2024	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 6	4/15/2024	0.0 - 8.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 7	4/16/2024	0.0 - 8.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 8	4/16/2024	0.0 - 8.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		11		<10.0		11	

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).



TABLE 4
SUMMARY OF ANALYTICAL RESULTS
DEEP CONFIRMATION SAMPLING - INCIDENT NGRL1131428247
MAVERICK PERMIAN, LLC
MCA UNIT #265 TESTLINE 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	
		C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	GRO+DRO	GRO+DRO+EXT DRO	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg
RRALs (Table I 19.15.29.12 NMAC)			10,000	Q	10	Q		Q		Q		Q	50	Q		Q		Q	1,000	2,500
BH - 1 (8')	4/15/2024	8.0 - 8.5	720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	46.8		<10.0	46.8	46.8
BH - 2 (8.0')	4/16/2024	8.0 - 8.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	286		86.5	286	372.5
BH - 3 (8.0')	4/16/2024	8.0 - 8.5	64		<0.050		<0.050		<0.050		0.18		<0.300		12.4	787		143	799.4	942.4
BH - 4 (8.0')	4/16/2024	8.0 - 8.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	296		52.7	296	348.7
BH - 5 (4')	4/15/2024	4.0 - 4.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<50.0	3,000		1,040	3,000	4,040
BH - 5 (7.0')	4/16/2024	7.0 - 7.5	80		<0.050		<0.050		<0.050		0.158		<0.300		16.2	975		180	991.2	1,171.2
BH - 6 (4')	4/15/2024	4.0 - 4.5	1,250		<0.050		<0.050		0.26		0.976		1.24		335	8,330		2,050	8,665	10,715
BH - 6 (7.0')	4/17/2024	8.0 - 8.5	80		<0.050		<0.050		0.342		1.17		1.53		95.4	3,510		933	3,605.4	4,538
BH - 6 @ 8'	4/19/2024	8.0 - 8.5	7,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	23		<10.0	23	23
BH - 7 (4')	4/15/2024	4.0 - 4.5	208		<0.050		<0.050		1.35		3.92		5.27		1,200	19,800		3,390	21,000	24,390
BH - 7 (7.0')	4/17/2024	8.0 - 8.5	96		<0.050		<0.050		0.281		0.97		1.27		130	4810		1280	4,940	6,220
BH - 7 @ 8'	4/19/2024	8.0 - 8.5	8,100		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	43.1		<10.0	43.1	43.1
BH - 8 (4')	4/15/2024	4.0 - 4.5	112		<0.050		<0.050		0.702		2.97		3.67		550	7,300		1,390	7,850	9,240
BH - 8 (7.0')	4/17/2024	8.0 - 8.5	64		<0.050		<0.050		0.319		0.995		1.36		113	5,900		1,770	6,013	7,783
BH - 8 @ 8'	4/19/2024	8.0 - 8.5	5,700		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	27.9		<10.0	27.9	27.9
BH - 9 (4')	4/15/2024	4.0 - 4.5	144		<0.050		<0.050		1.78		10.3		12.1		1,140	11,700		1,950	12,840	14,790
BH - 9 (7.0')	4/17/2024	4.0 - 4.5	960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	14.5		<10.0	14.5	14.5
BH - 10 (4')	4/15/2024	4.0 - 4.5	160		<0.050		<0.050		0.564		2.39		2.95		342	8090		1510	8,432	9,942
BH - 10 (7.0')	4/17/2024	4.0 - 4.5	1,020		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	18.2		<10.0	18.2	18.2
BH - 11 (4')	4/15/2024	4.0 - 4.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	-
BH - 12 (4')	4/15/2024	4.0 - 4.5	896		<0.050		<0.050		<0.050		<0.150		<0.300		12.3	725		102	737.3	839.3
BH - 13 (4')	4/15/2024	4.0 - 4.5	384		<0.050		<0.050		<0.050		<0.150		<0.300		79.9	9,850		1,850	9,930	11,780
BH - 13 (7.0')	4/17/2024	4.0 - 4.5	976		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	17.9		<10.0	17.9	17.9
SW - 9	4/17/2024	4.0 - 8.0	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	290		36.6	290	326.6
SW - 10	4/17/2024	4.0 - 7.0	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	306		42.8	306	348.8
SW - 11	4/17/2024	4.0 - 8.0	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	329		55.6	329	384.6
SW - 12	4/17/2024	4.0 - 8.0	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	282		40.8	282	322.8

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 Table I 19.15.29.12 NMAC.
Areas that were over excavated and resampled to achieve clean margins.

Remediation/Reclamation Report and Closure Request
Maverick Permian, LLC
MCA Unit #265 Test Line Release
Incident ID: nGRL1131428247

August 23, 2024

ATTACHMENT 1 – SITE CHARACTERIZATION DATA



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No report data available.

Basin/County Search:

County: LE

UTM Filters (in meters):

Easting: 612951

Northing: 3631661

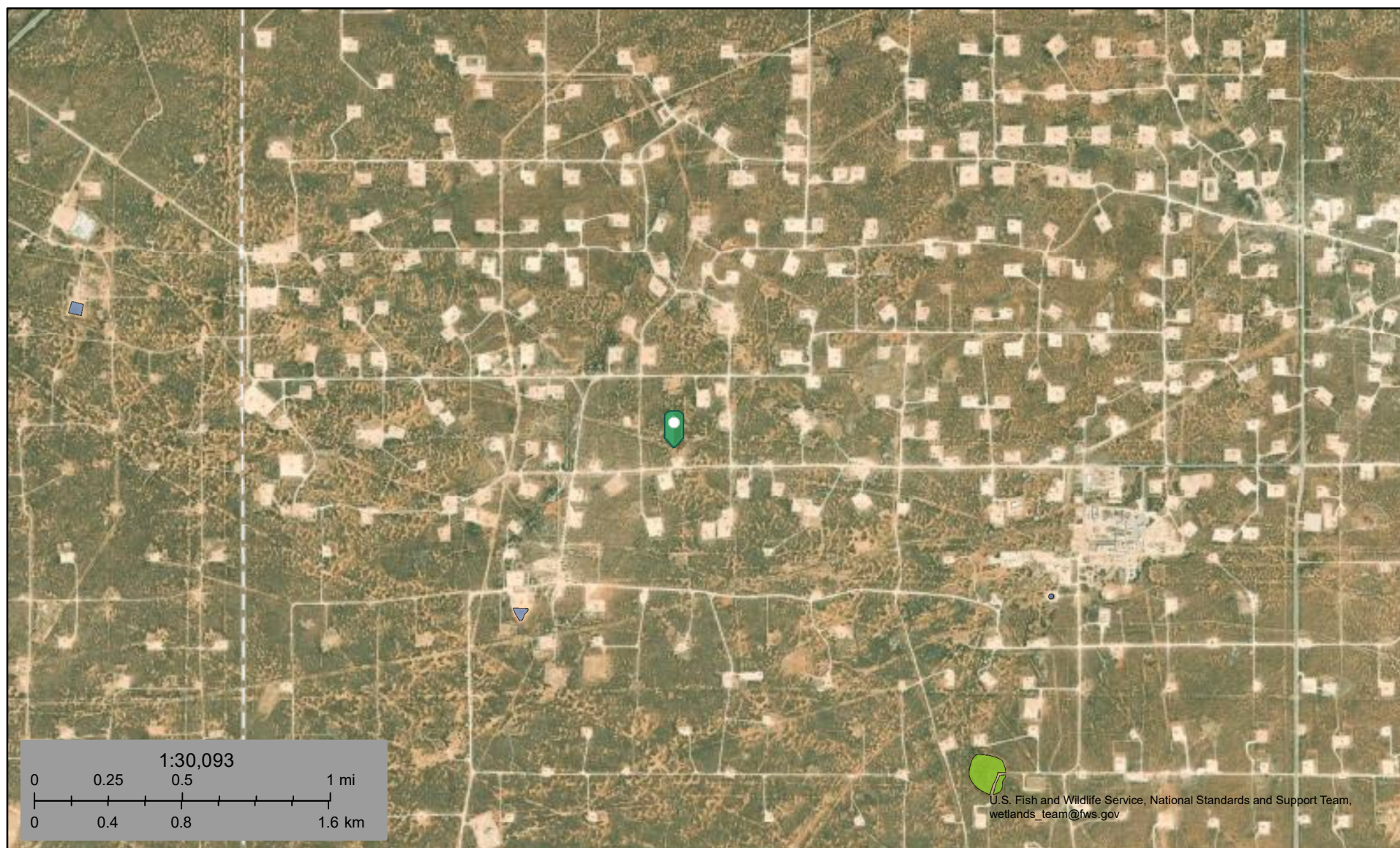
Radius: 800

* 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.



Wetlands



August 22, 2024

Wetlands

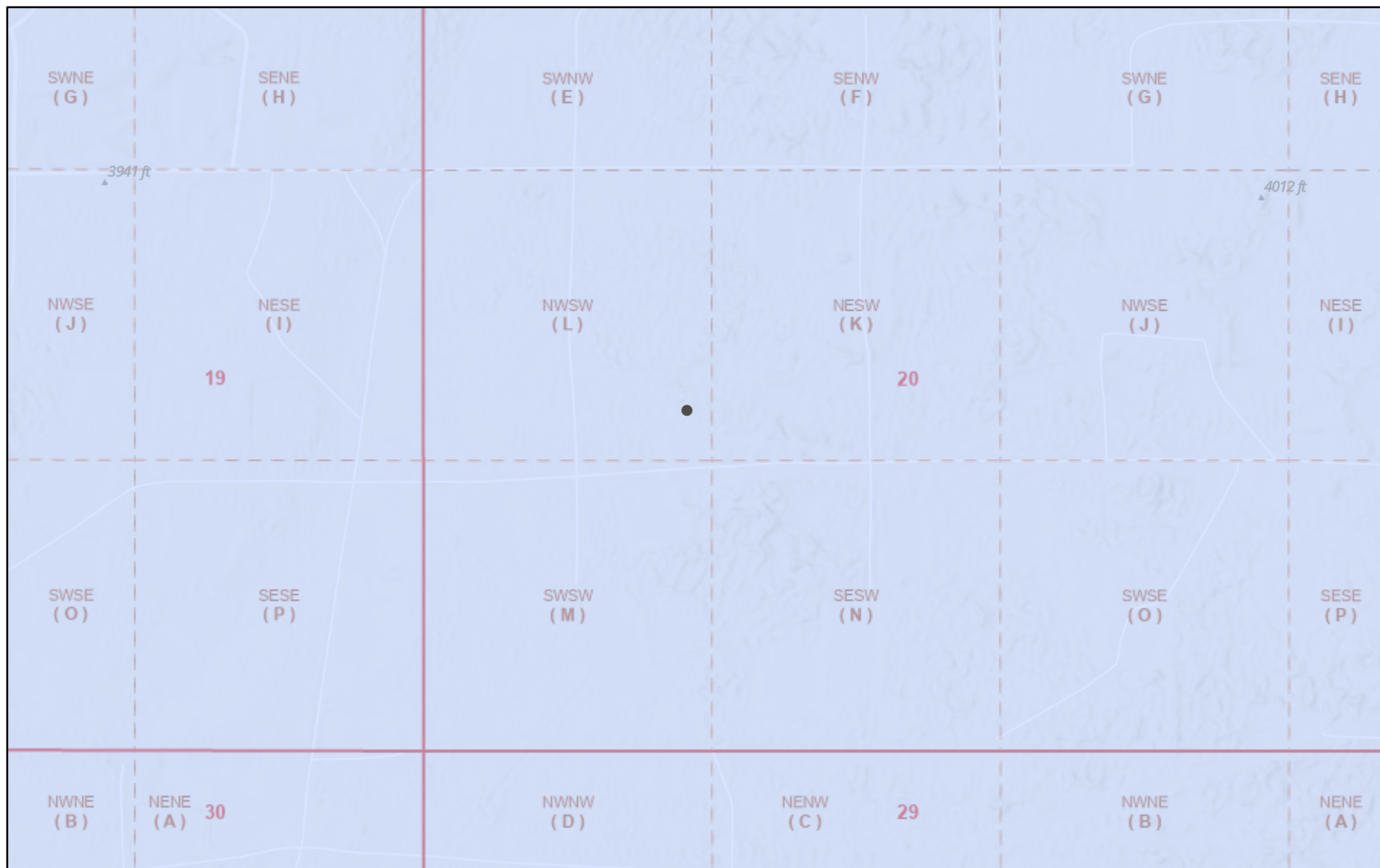
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

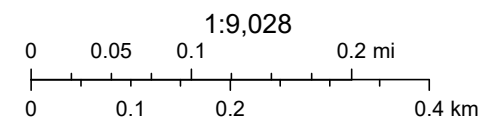
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

OCD Well Locations



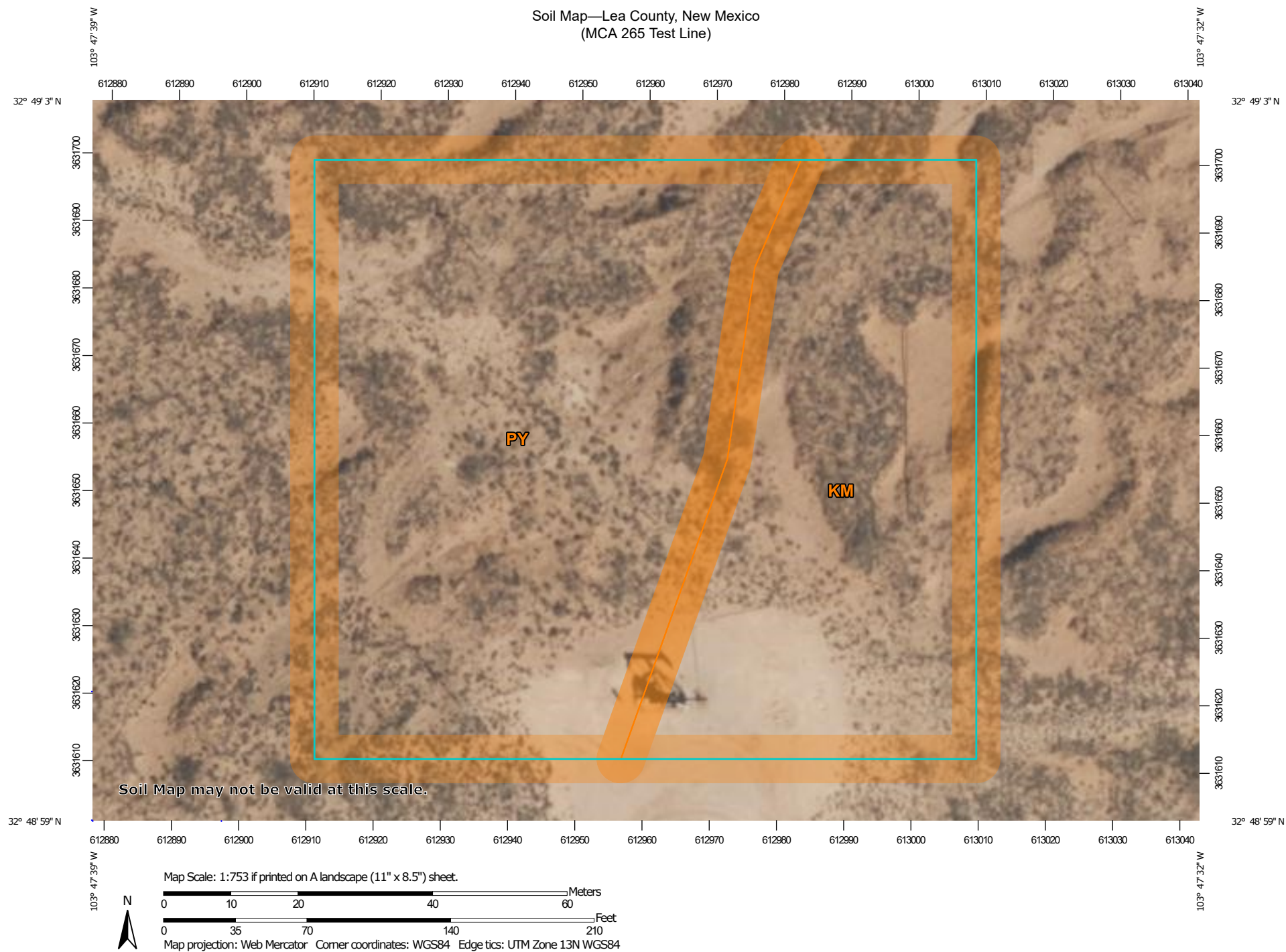
8/22/2024, 4:01:13 PM

Karst Occurrence Potential PLSS Second Division
 Low PLSS First Division



BLM, OCD, New Mexico Tech, Esri, NASA, NGA, USGS, FEMA, USGS, OCD, Esri Community Maps Contributors, New Mexico State University,


New Mexico Oil Conservation Division

Soil Map—Lea County, New Mexico
(MCA 265 Test Line)Natural Resources
Conservation ServiceWeb Soil Survey
National Cooperative Soil Survey8/22/2024
Page 1 of 3

Soil Map—Lea County, New Mexico
(MCA 265 Test Line)

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
KM	Kermit soils and Dune land, 0 to 12 percent slopes	0.9	39.6%
PY	Pyote soils and Dune land	1.3	60.4%
Totals for Area of Interest		2.2	100.0%

National Flood Hazard Layer FIRMette



103°47'55"W 32°49'17"N



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

1:6,000

103°47'18"W 32°48'47"N

Released to Imaging: 8/30/2024 11:47:41 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 8/23/2024 at 12:35 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.

Remediation/Reclamation Report and Closure Request
Maverick Permian, LLC
MCA Unit #265 Test Line Release
Incident ID: nGRL1131428247

August 23, 2024

ATTACHMENT 2 – BORE LOGS

WORLD WIDE ENVIRONMENTAL SPECIALISTS



PHONE (505) 397-6388 • FAX (505) 397-0397 • 1321 W. MARLAND • P.O. BOX 305 • HOBBBS, NM 88241-0805
E-MAIL: bbs@bbcinternational.com

Summary of Test Boring MCA Battery 1 Injection Line Leak

The test boring at the injection line leak site at MCA Battery No. 1 was advanced to a total of 138 feet below ground surface. The boring encountered about 4 feet of Quaternary age aeolian (windblown) sand at the surface resting on a thin layer of caliche. The remainder of the boring encountered sand of the upper part of the Triassic Dockum Group.

The upper 40 feet of the Dockum Group at this location is characterized by dark red, fine grain sand. Very thin poorly cemented sand layers were also encountered in the upper portion of the boring. A slightly moist zone was encountered from about 55 feet to about 75 feet below ground surface. This zone was not saturated and soils below this zone were dry. Grain size in the Dockum Group decreased with depth in the boring. Very thin silty clay layers are common in the lower portion of the boring. Several very thin gravel layers were also encountered from about 80 feet to 138 feet.

It is unlikely that a saturated zone (groundwater) will be encountered in the Dockum Group.



RECORD OF SUBSURFACE EXPLORATION

Project Name: ConocoPhillips - MCA Battery 1 4" Trunkline
Date: August 3, 2005
Borehole Number: Soil Boring 1
Logged by: Steven Bond
Drilled by: White Drilling
Drilling/Rig Method(s): Air Rotary
Date/Time Started: _____

Time Completed: _____

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	Comments
--0		0'-4'		Light red, fine grain wind-blown sand		
-		4'-5'		Buff-pink caliche		
-5						
-		5'-10'		Light red to pink, fine grain, poorly sorted sand		
-10						
-						
-15						
-		15'-26'		Dark red, fine grain, well sorted sand containing thin, poorly cemented layers, cement is likely CaCO ₃		
-20						
-						
-25		26'-30'		Pale brown-red fine sand with thin CaCO ₃ cemented zones		
-30						
-						
-35						
-		30'-45'		Dark red, fine silty sand containing thin CaCO ₃ cemented zones		
-40						
-						
-45						
-						
-50		45'-70'		Dark red, silty fine sand, slightly moist, grain size decreasing with depth		
-						



RECORD OF SUBSURFACE EXPLORATION

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	Comments
--55						
--60						
--65						
--70						
--75		70'-80'		Dark red, silty, very fine grain sand, no moisture, thin gravel layer at base of unit		
--80						
--85		80'-88'		Dark red, silty, clayey sand		
--90						
--95						
--100						
--105		88'-118'		Dark red to reddish-brown silty, clayey sand with very thin, blue-gray clay layers interbedded		
--110						



RECORD OF SUBSURFACE EXPLORATION

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	Comments
--110						
--115		118'-120'		Green, moderately well cemented, fine grain sandstone		
--120		120'-125		Pale green, very fine grain sand with thin layer of large gravel		
--125						
--130		125'-138'		Red, silt with very fine sand, thin clay layers thin gravel layers		
--135						
--140						
--145						
--150						
--155						
--160						
--165						

Comments: _____

Technician Signature: _____

File Number: _____

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

1. OWNER OF WELL

Name: ConocoPhillips Work Phone: _____
 Contact: _____ Home Phone: _____
 Address: 1000 Conoco Rd.
 City: Maljamar State: NM Zip: 88264

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. 1/4 1/4 1/4 Section: 29 Township: 17S Range: 32E N.M.P.M.
 in Unit Letter E, Lea Co. County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
 Zone in the _____ Grant.
 U.S.G.S. Quad Map _____

C. Latitude: 32 d 48 m 40.2 s Longitude: 103 d 47 m 29.2 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
 _____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): ConocoPhillips

3. DRILLING CONTRACTOR

License Number: WD-1456
 Name: White Drilling Company, Inc. Work Phone: 325-893-2950
 Agent: John W. White Home Phone: 325-893-2950
 Mailing Address: P.O. Box 906
 City: Clyde State: TX Zip: 79510

4. DRILLING RECORD: SB-2

Drilling began: 8/03/05; Completed: 8/03/05; Type tools: Air Rotary;
 Size of hole: 4 3/4 in.; Total depth of well: 138.0 ft.;
 Completed well is: shallow (shallow, artesian);
 Depth to water upon completion of well: DRY ft.

File Number: _____ page 1 of 4
 Form: wr-20

Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-2

Depth in Feet		Thickness	Description of	Estimated Yield
From	To	in feet	water-bearing formation	(GPM)
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole	Sacks	Cubic Feet	Method of Placement
From	To	Diameter	of mud	of Cement	
138.0	5.0	4 3/4	19		Pour/bentonite pellets
5.0	0.0	4 3/4	2	0.99	Hand mix/cement
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

8. PLUGGING RECORD

Plugging Contractor: _____
Address: _____
Plugging Method: _____
Date Well Plugged: _____

Plugging approved by: _____
State Engineer Representative

	No. Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____

File Number: _____ Trn Number: _____

Form: wr-20 page 2 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD[illegible]

Form provided by Forms On-A-Disk • 214-340-9429 • FormsOnADisk.com

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS: SB-2

This was an environmental soil boring.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driver

8/22/2005

(mm/dd/year)

FOR STATE ENGINEER USE ONLY

Quad _____ ; FWL _____ ; FSL _____ ; Use _____ ; Location No. _____

File Number: _____
Form: wr-20 page 4 of 4

Trn Number:

Form provided by Forms On-A-Disk • 214-340-9429 • FormsOnADisk.com

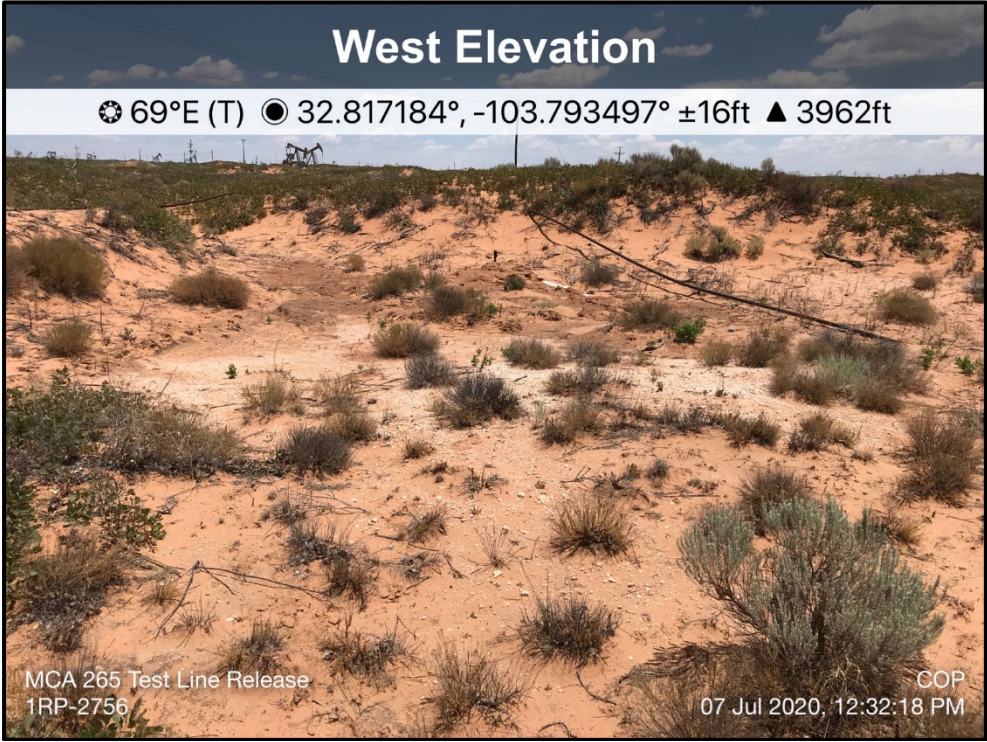
Remediation/Reclamation Report and Closure Request
Maverick Permian, LLC
MCA Unit #265 Test Line Release
Incident ID: nGRL1131428247

August 23, 2024

ATTACHMENT 3 – PHOTOGRAPHIC DOCUMENTATION



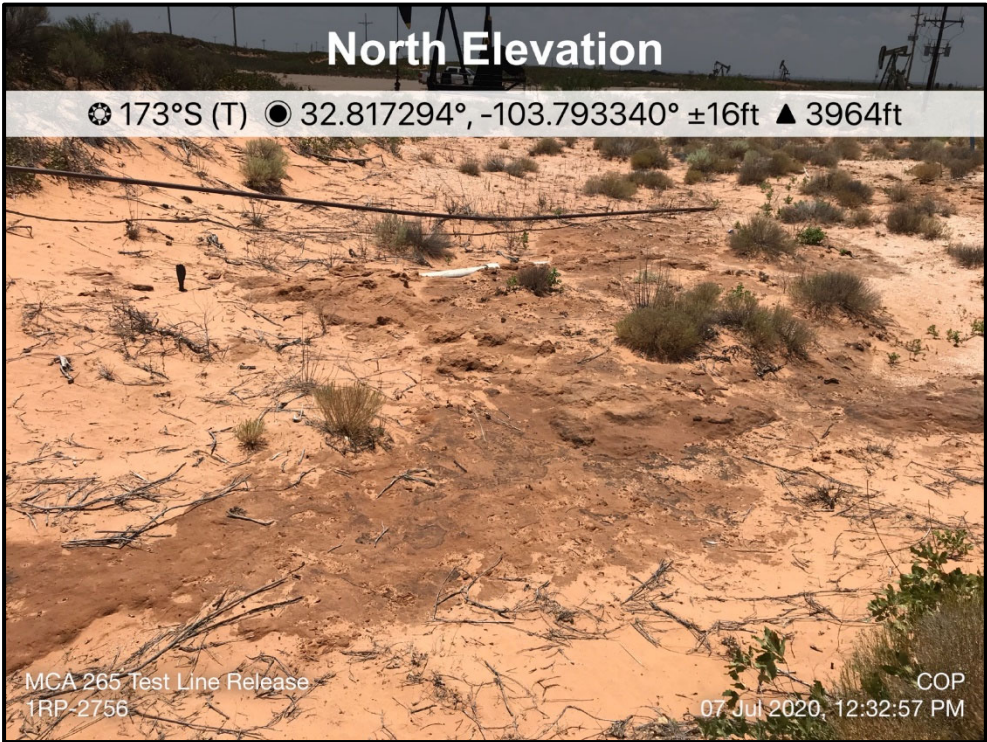
TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northeast of lease signage.	1
	SITE NAME	MCA 265 Test Line Release	7/7/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing east of release area.	2
	SITE NAME	MCA 265 Test Line Release	7/7/2020



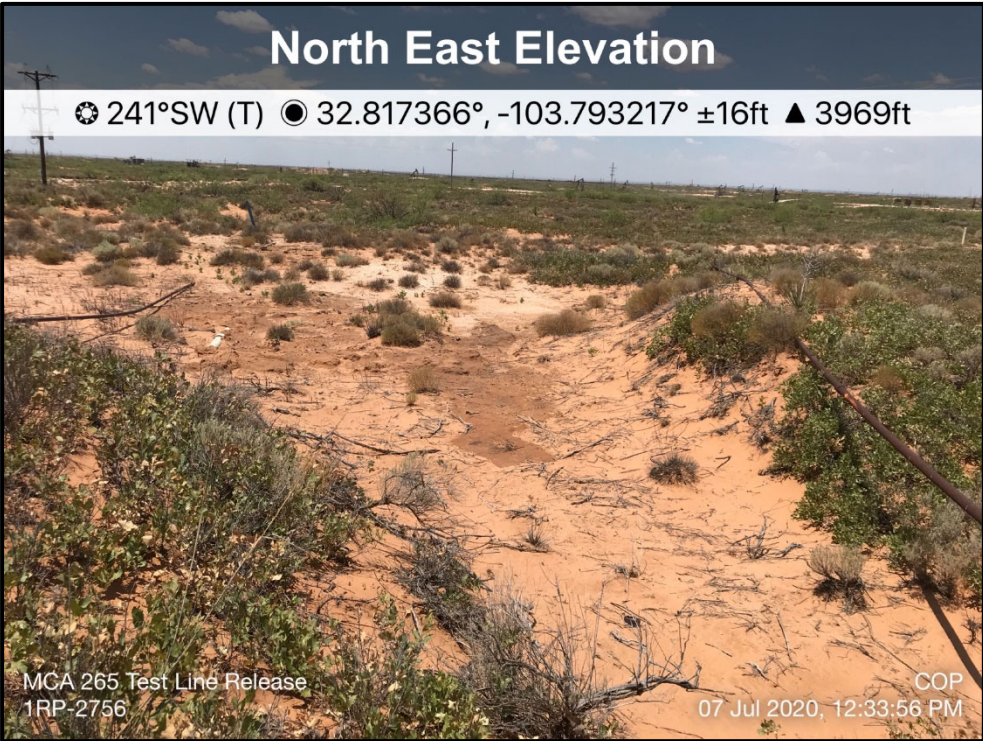
TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing southeast of release area.	3
	SITE NAME	MCA 265 Test Line Release	7/7/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing south of release area.	4
	SITE NAME	MCA 265 Test Line Release	7/7/2020



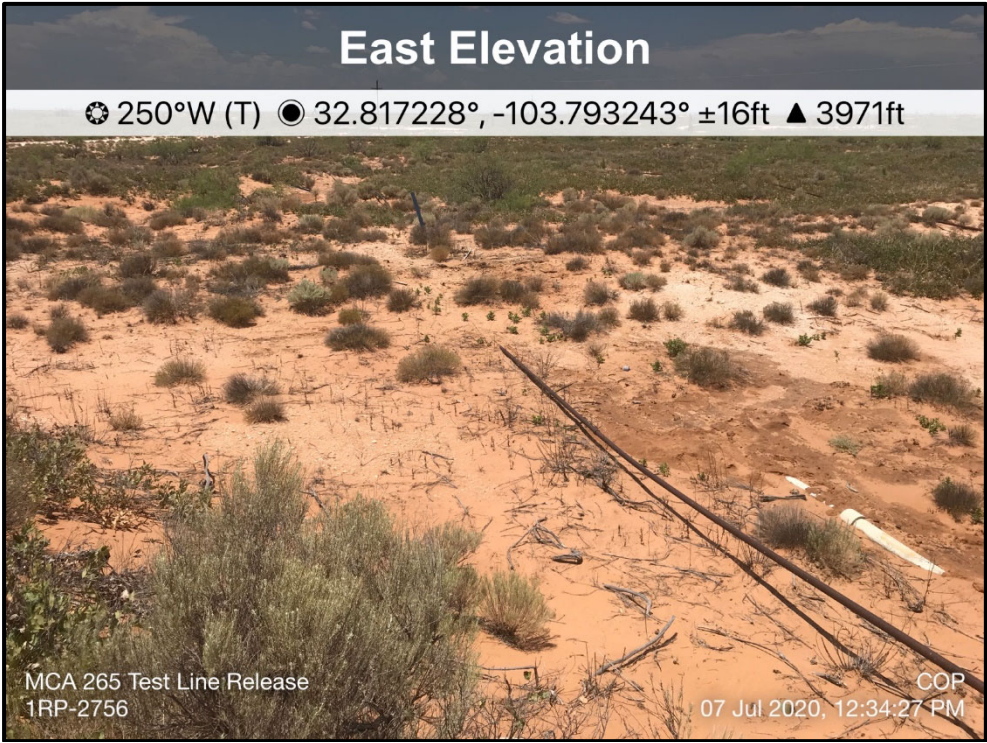
TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing southwest of release area.	5
	SITE NAME	MCA 265 Test Line Release	7/7/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing southwest of release area.	6
	SITE NAME	MCA 265 Test Line Release	7/7/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northwest of release area.	7
	SITE NAME	MCA 265 Test Line Release	7/7/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing west of release area.	8
	SITE NAME	MCA 265 Test Line Release	7/7/2020

NW

N

NE

E

300

330

0

30

60

90

120

☀ 26°NE (T) LAT: 32.817179 LON: -103.793406 ±4m ▲ 1207m



Site Remediation
Tetra Tech

Maverick- MCA 265
Apr 22 2024, 08:33:05 MDT

NW

N

NE

E

300

330

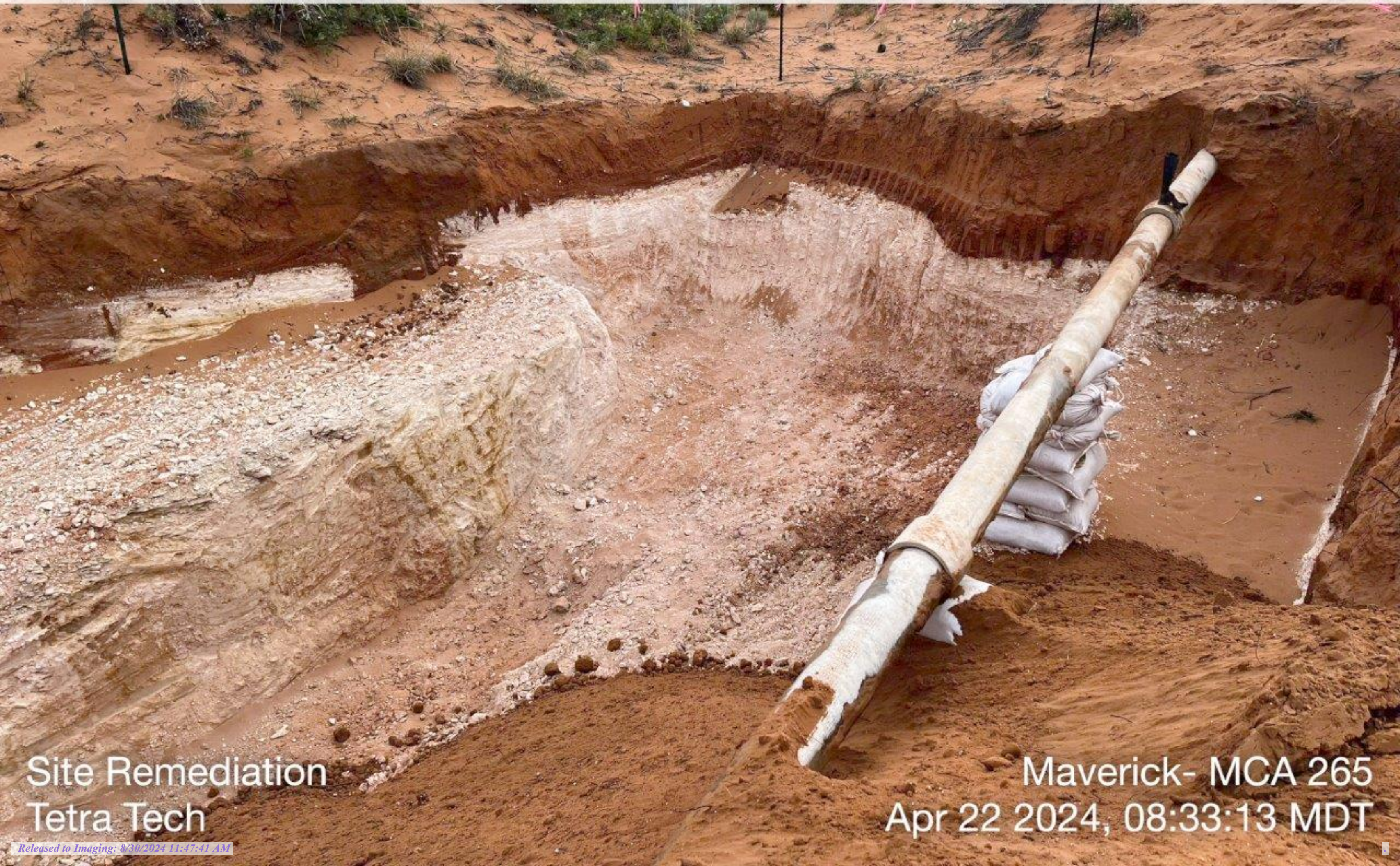
0

30

60

90

☉ 21°N (T) LAT: 32.817202 LON: -103.793359 ±4m ▲ 1209m



Site Remediation
Tetra Tech

Maverick- MCA 265
Apr 22 2024, 08:33:13 MDT

NW

N

NE

E

300

330

0

30

60

90

☉ 21°N (T) LAT: 32.817204 LON: -103.793356 ±4m ▲ 1209m



Site Remediation
Tetra Tech

Maverick- MCA 265
Apr 22 2024, 08:33:16 MDT

W

NW

N

NE

270

300

330

0

30

60

☀ 341°N (T) LAT: 32.817200 LON: -103.793312 ±3m ▲ 1206m



Site Remediation
Tetra Tech

Maverick- MCA 265
Apr 22 2024, 08:33:28 MDT



☀ 266°W (T) LAT: 32.817262 LON: -103.793268 ±4m ▲ 1207m

Site Remediation
Tetra Tech

Maverick- MCA 265
Apr 22 2024, 08:33:47 MDT

SW

W

NW

N

210

240

270

300

330

0

☉ 286°W (T) LAT: 32.817266 LON: -103.793271 ±4m ▲ 1207m



Site Remediation
Tetra Tech

Maverick- MCA 265
Apr 22 2024, 08:33:51 MDT

SW

W

NW

N

210

240

270

300

330

0

☉ 286°W (T) LAT: 32.817267 LON: -103.793271 ±4m ▲ 1207m



Site Remediation
Tetra Tech

Maverick- MCA 265
Apr 22 2024, 08:34:11 MDT

SE

S

SW

W

120

150

180

210

240

270

☉ 200°S (T) LAT: 32.817269 LON: -103.793272 ±3m ▲ 1207m



Site Remediation
Tetra Tech

Maverick- MCA 265
Apr 22 2024, 08:34:15 MDT



☉ 28°NE (T) LAT: 32.817223 LON: -103.793378 ±3m ▲ 1210m



Site Remediation
Tetra Tech

Maverick- MCA 265
Apr 22 2024, 08:35:54 MDT



☉ 6°N (T) LAT: 32.816915 LON: -103.793205 ±3m ▲ 1212m

Site Remediation
Tetra Tech

Maverick- MCA 265
Aug 23 2024, 16:18:52 MDT



NW

N

NE

E

300

330

0

30

60

90

☉ 23°NE (T) LAT: 32.817035 LON: -103.793370 ±4m ▲ 1213m

Site Remediation
Tetra Tech

Maverick- MCA 265
Aug 23 2024, 16:19:08 MDT



☀ 34°NE (T) LAT: 32.817050 LON: -103.793424 ±4m ▲ 1213m



Site Remediation
Tetra Tech

Maverick- MCA 265
Aug 23 2024, 16:19:20 MDT

Remediation/Reclamation Report and Closure Request
Maverick Permian, LLC
MCA Unit #265 Test Line Release
Incident ID: nGRL1131428247

August 23, 2024

ATTACHMENT 4 – LABORATORY ANALYTICAL DATA



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

April 16, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA - 265 TEST LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/15/24 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 1 (H241971-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2024	ND	2.29	114	2.00	1.75		
Toluene*	<0.050	0.050	04/15/2024	ND	2.20	110	2.00	1.74		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.13	107	2.00	1.77		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.26	104	6.00	2.04		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 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	48.0	16.0	04/16/2024	ND	464	116	400	7.14		

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	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	18.4	10.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	10.7	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 2 (H241971-02)

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	04/15/2024	ND	2.29	114	2.00	1.75		
Toluene*	<0.050	0.050	04/15/2024	ND	2.20	110	2.00	1.74		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.13	107	2.00	1.77		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.26	104	6.00	2.04		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 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	32.0	16.0	04/16/2024	ND	464	116	400	7.14		

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	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 3 (H241971-03)

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	04/15/2024	ND	2.29	114	2.00	1.75		
Toluene*	<0.050	0.050	04/15/2024	ND	2.20	110	2.00	1.74		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.13	107	2.00	1.77		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.26	104	6.00	2.04		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 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	16.0	16.0	04/16/2024	ND	464	116	400	7.14		

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	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 4 (H241971-04)

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	04/15/2024	ND	2.29	114	2.00	1.75		
Toluene*	<0.050	0.050	04/15/2024	ND	2.20	110	2.00	1.74		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.13	107	2.00	1.77		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.26	104	6.00	2.04		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 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	16.0	16.0	04/16/2024	ND	464	116	400	7.14		

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	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 5 (H241971-05)

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	04/15/2024	ND	2.29	114	2.00	1.75		
Toluene*	<0.050	0.050	04/15/2024	ND	2.20	110	2.00	1.74		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.13	107	2.00	1.77		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.26	104	6.00	2.04		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 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	16.0	16.0	04/16/2024	ND	464	116	400	7.14		

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	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW 6 (H241971-06)

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	04/15/2024	ND	2.29	114	2.00	1.75		
Toluene*	<0.050	0.050	04/15/2024	ND	2.20	110	2.00	1.74		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.13	107	2.00	1.77		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.26	104	6.00	2.04		
Total BTX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/16/2024	ND	432	108	400	3.64		

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	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 1 (8') (H241971-07)

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	04/15/2024	ND	2.29	114	2.00	1.75		
Toluene*	<0.050	0.050	04/15/2024	ND	2.20	110	2.00	1.74		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.13	107	2.00	1.77		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.26	104	6.00	2.04		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	04/16/2024	ND	432	108	400	3.64		

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	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	46.8	10.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 5 (4') (H241971-08)

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	04/15/2024	ND	2.29	114	2.00	1.75		
Toluene*	<0.050	0.050	04/15/2024	ND	2.20	110	2.00	1.74		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.13	107	2.00	1.77		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.26	104	6.00	2.04		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/16/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	3000	50.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	1040	50.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 6 (4') (H241971-09)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2024	ND	2.29	114	2.00	1.75	
Toluene*	<0.050	0.050	04/16/2024	ND	2.20	110	2.00	1.74	GC-NC
Ethylbenzene*	0.260	0.050	04/16/2024	ND	2.13	107	2.00	1.77	GC-NC1
Total Xylenes*	0.976	0.150	04/16/2024	ND	6.26	104	6.00	2.04	GC-NC1
Total BTEX	1.24	0.300	04/16/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 413 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	04/16/2024	ND	432	108	400	3.64	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	335	50.0	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	8330	50.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	2050	50.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 7 (4') (H241971-10)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2024	ND	2.29	114	2.00	1.75	
Toluene*	<0.050	0.050	04/16/2024	ND	2.20	110	2.00	1.74	GC-NC
Ethylbenzene*	1.35	0.050	04/16/2024	ND	2.13	107	2.00	1.77	GC-NC1
Total Xylenes*	3.92	0.150	04/16/2024	ND	6.26	104	6.00	2.04	GC-NC1
Total BTEX	5.27	0.300	04/16/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 493 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/16/2024	ND	432	108	400	3.64	

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*	1200	50.0	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	19800	50.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	3390	50.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 158 % 48.2-134

Surrogate: 1-Chlorooctadecane 362 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 8 (4') (H241971-11)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2024	ND	2.29	114	2.00	1.75	
Toluene*	<0.050	0.050	04/15/2024	ND	2.20	110	2.00	1.74	GC-NC
Ethylbenzene*	0.702	0.050	04/15/2024	ND	2.13	107	2.00	1.77	GC-NC1
Total Xylenes*	2.97	0.150	04/15/2024	ND	6.26	104	6.00	2.04	GC-NC1
Total BTEX	3.67	0.300	04/15/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 446 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	550	50.0	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	7300	50.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	1390	50.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 9 (4') (H241971-12)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2024	ND	2.29	114	2.00	1.75	
Toluene*	<0.050	0.050	04/16/2024	ND	2.20	110	2.00	1.74	GC-NC
Ethylbenzene*	1.78	0.050	04/16/2024	ND	2.13	107	2.00	1.77	GC-NC1
Total Xylenes*	10.3	0.150	04/16/2024	ND	6.26	104	6.00	2.04	GC-NC1
Total BTEX	12.1	0.300	04/16/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 499 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/16/2024	ND	432	108	400	3.64	

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*	1140	50.0	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	11700	50.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	1950	50.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 210 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 10 (4') (H241971-13)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2024	ND	2.29	114	2.00	1.75	
Toluene*	<0.050	0.050	04/15/2024	ND	2.20	110	2.00	1.74	GC-NC
Ethylbenzene*	0.564	0.050	04/15/2024	ND	2.13	107	2.00	1.77	GC-NC1
Total Xylenes*	2.39	0.150	04/15/2024	ND	6.26	104	6.00	2.04	GC-NC1
Total BTEX	2.95	0.300	04/15/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 375 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/16/2024	ND	432	108	400	3.64	

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*	342	50.0	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	8090	50.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	1510	50.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 161 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 11 (4') (H241971-14)

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	04/15/2024	ND	2.29	114	2.00	1.75		
Toluene*	<0.050	0.050	04/15/2024	ND	2.20	110	2.00	1.74		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.13	107	2.00	1.77		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.26	104	6.00	2.04		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	04/16/2024	ND	432	108	400	3.64		

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	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 12 (4') (H241971-15)

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	04/15/2024	ND	2.29	114	2.00	1.75		
Toluene*	<0.050	0.050	04/15/2024	ND	2.20	110	2.00	1.74		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.13	107	2.00	1.77		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.26	104	6.00	2.04		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	04/16/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.3	10.0	04/16/2024	ND	192	96.1	200	0.121	
DRO >C10-C28*	725	10.0	04/16/2024	ND	189	94.4	200	6.17	
EXT DRO >C28-C36	102	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 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:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH 13 (4') (H241971-16)

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	04/16/2024	ND	2.09	105	2.00	1.36		
Toluene*	<0.050	0.050	04/16/2024	ND	2.26	113	2.00	1.39		
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.29	115	2.00	2.61		
Total Xylenes*	<0.150	0.150	04/16/2024	ND	6.84	114	6.00	2.25		
Total BTEX	<0.300	0.300	04/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/16/2024	ND	432	108	400	3.64		
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*	79.9	50.0	04/16/2024	ND	181	90.3	200	0.802		
DRO >C10-C28*	9850	50.0	04/16/2024	ND	171	85.4	200	3.13	QM-07, QR-03	
EXT DRO >C28-C36	1850	50.0	04/16/2024	ND						

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 211 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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.
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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

107

Company Name: <u>Cardinal</u> Project Manager: <u>Cheryl Terrene</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>MCA 245 Testline</u> Project Location: <u>Lea Co. NM</u> Sampler Name: <u>AC</u> <small>FOR LAB USE ONLY</small>				P.O. #: _____ Company: <u>Marene</u> Attn: <u>Bye W.</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____			
Lab I.D. <u>H41971</u> Sample I.D. _____ 1 SW 1 2 SW 2 3 SW 3 4 SW 4 5 SW 5 6 SW 6 7 BH 1 (8') 8 BH 5 (4') 9 BH 6 (4') 10 BH 7 (4')				(G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ MATRIX: SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ (ICE) COOL _____ OTHER: _____			
				DATE <u>4/15</u> TIME _____ BTX _____ TPH _____ Chlorides _____			
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Relinquished By: <u>David Lee</u> Relinquished By: _____ Date: <u>4/15</u> Time: <u>1500</u> Date: _____ Time: _____ Received By: <u>AC</u> Received By: _____				REMARKS: _____ Turnaround Time: _____ Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #140 <u>04h</u> Correction Factor 0°C _____ Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____			



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: Tera Tech Project Manager: Chuck Terhune Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: MCA 265 Test Lin Project Location: Lea Co. NM Sampler Name: KA		BILL TO P.O. #: Company: Mavence Attn: Bryce Address: City: State: Zip: Phone #: Fax #: Preserv:		ANALYSIS REQUEST	
Lab I.D. Sample I.D. H34971 11 BH 8 (4') 12 BH 9 (4') 13 BH 10 (4') 14 BH 11 (4') 15 BH 12 (4') 16 BH 13 (4')		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: (C) COOL OTHER:		DATE TIME 4/15 BTX TPH Chloride	
Relinquished By: [Signature] Date: 4/15 Time: 1500 Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: Remarks:		Turnaround Time: Standard <input type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 <input type="checkbox"/> Bacteria (only) Sample Condition Correction Factor 0°C <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C	



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

April 18, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA - 265 TEST LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/16/24 16:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 7 (H242013-01)

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	04/17/2024	ND	2.16	108	2.00	8.37	
Toluene*	<0.050	0.050	04/17/2024	ND	2.14	107	2.00	8.13	
Ethylbenzene*	<0.050	0.050	04/17/2024	ND	2.07	103	2.00	8.59	
Total Xylenes*	<0.150	0.150	04/17/2024	ND	6.28	105	6.00	7.24	
Total BTX	<0.300	0.300	04/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	04/17/2024	ND	448	112	400	3.51	

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	04/17/2024	ND	193	96.6	200	1.14	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	180	90.1	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 8 (H242013-02)

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	04/17/2024	ND	2.16	108	2.00	8.37		
Toluene*	<0.050	0.050	04/17/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	04/17/2024	ND	2.07	103	2.00	8.59		
Total Xylenes*	<0.150	0.150	04/17/2024	ND	6.28	105	6.00	7.24		
Total BTEX	<0.300	0.300	04/17/2024	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	<16.0	16.0	04/17/2024	ND	448	112	400	3.51		

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	04/17/2024	ND	193	96.6	200	1.14	
DRO >C10-C28*	10.8	10.0	04/17/2024	ND	180	90.1	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 2 (8.0') (H242013-03)

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	04/17/2024	ND	2.16	108	2.00	8.37		
Toluene*	<0.050	0.050	04/17/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	04/17/2024	ND	2.07	103	2.00	8.59		
Total Xylenes*	<0.150	0.150	04/17/2024	ND	6.28	105	6.00	7.24		
Total BTX	<0.300	0.300	04/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	48.0	16.0	04/17/2024	ND	448	112	400	3.51		

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	04/17/2024	ND	193	96.6	200	1.14	
DRO >C10-C28*	286	10.0	04/17/2024	ND	180	90.1	200	0.662	
EXT DRO >C28-C36	86.5	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 3 (8.0') (H242013-04)

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	04/17/2024	ND	2.16	108	2.00	8.37		
Toluene*	<0.050	0.050	04/17/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	04/17/2024	ND	2.07	103	2.00	8.59		
Total Xylenes*	0.180	0.150	04/17/2024	ND	6.28	105	6.00	7.24		
Total BTEX	<0.300	0.300	04/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	04/17/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.4	10.0	04/17/2024	ND	200	99.8	200	3.75	
DRO >C10-C28*	787	10.0	04/17/2024	ND	180	90.0	200	5.78	
EXT DRO >C28-C36	143	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 4 (8.0') (H242013-05)

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	04/17/2024	ND	2.16	108	2.00	8.37		
Toluene*	<0.050	0.050	04/17/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	04/17/2024	ND	2.07	103	2.00	8.59		
Total Xylenes*	<0.150	0.150	04/17/2024	ND	6.28	105	6.00	7.24		
Total BTEX	<0.300	0.300	04/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	48.0	16.0	04/17/2024	ND	448	112	400	3.51		

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	04/17/2024	ND	200	99.8	200	3.75	
DRO >C10-C28*	296	10.0	04/17/2024	ND	180	90.0	200	5.78	
EXT DRO >C28-C36	52.7	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 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:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shari Cisneros
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 5 (7.0') (H242013-06)

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	04/17/2024	ND	2.16	108	2.00	8.37		
Toluene*	<0.050	0.050	04/17/2024	ND	2.14	107	2.00	8.13		
Ethylbenzene*	<0.050	0.050	04/17/2024	ND	2.07	103	2.00	8.59		
Total Xylenes*	0.158	0.150	04/17/2024	ND	6.28	105	6.00	7.24		
Total BTEX	<0.300	0.300	04/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	04/17/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	16.2	10.0	04/17/2024	ND	200	99.8	200	3.75	
DRO >C10-C28*	975	10.0	04/17/2024	ND	180	90.0	200	5.78	
EXT DRO >C28-C36	180	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

[illegible]

Page 1 of 1

Page 9 of 9



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

April 19, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA - 265 TEST LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/18/24 9:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:	04/18/2024	Sampling Date:	04/17/2024
Reported:	04/19/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03435	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 9 (H242065-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.25	113	2.00	3.82	
Toluene*	<0.050	0.050	04/18/2024	ND	2.48	124	2.00	8.03	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.62	131	2.00	10.1	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.87	131	6.00	10.4	
Total BTEX	<0.300	0.300	04/18/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	04/18/2024	ND	480	120	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	04/18/2024	ND	199	99.6	200	1.76	
DRO >C10-C28*	290	10.0	04/18/2024	ND	201	101	200	0.900	
EXT DRO >C28-C36	36.6	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 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:	04/18/2024	Sampling Date:	04/17/2024
Reported:	04/19/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03435	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 10 (H242065-02)

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	04/18/2024	ND	2.25	113	2.00	3.82		
Toluene*	<0.050	0.050	04/18/2024	ND	2.48	124	2.00	8.03		
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.62	131	2.00	10.1		
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.87	131	6.00	10.4		
Total BTEX	<0.300	0.300	04/18/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	04/18/2024	ND	480	120	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	04/18/2024	ND	199	99.6	200	1.76	
DRO >C10-C28*	306	10.0	04/18/2024	ND	201	101	200	0.900	
EXT DRO >C28-C36	42.8	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 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:	04/18/2024	Sampling Date:	04/17/2024
Reported:	04/19/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03435	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 11 (H242065-03)

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	04/18/2024	ND	2.25	113	2.00	3.82		
Toluene*	<0.050	0.050	04/18/2024	ND	2.48	124	2.00	8.03		
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.62	131	2.00	10.1		
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.87	131	6.00	10.4		
Total BTEX	<0.300	0.300	04/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/18/2024	ND	480	120	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	04/18/2024	ND	199	99.6	200	1.76	
DRO >C10-C28*	329	10.0	04/18/2024	ND	201	101	200	0.900	
EXT DRO >C28-C36	55.6	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	04/18/2024	Sampling Date:	04/17/2024
Reported:	04/19/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03435	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 12 (H242065-04)

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	04/18/2024	ND	2.25	113	2.00	3.82		
Toluene*	<0.050	0.050	04/18/2024	ND	2.48	124	2.00	8.03		
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.62	131	2.00	10.1		
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.87	131	6.00	10.4		
Total BTEX	<0.300	0.300	04/18/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/18/2024	ND	480	120	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	04/18/2024	ND	199	99.6	200	1.76	
DRO >C10-C28*	282	10.0	04/18/2024	ND	201	101	200	0.900	
EXT DRO >C28-C36	40.8	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 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:	04/18/2024	Sampling Date:	04/17/2024
Reported:	04/19/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03435	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 6 (7.0') (H242065-05)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.25	113	2.00	3.82	
Toluene*	<0.050	0.050	04/18/2024	ND	2.48	124	2.00	8.03	
Ethylbenzene*	0.342	0.050	04/18/2024	ND	2.62	131	2.00	10.1	
Total Xylenes*	1.17	0.150	04/18/2024	ND	7.87	131	6.00	10.4	GC-NC1
Total BTEX	1.53	0.300	04/18/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 157 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/18/2024	ND	480	120	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*	95.4	50.0	04/18/2024	ND	199	99.6	200	1.76	
DRO >C10-C28*	3510	50.0	04/18/2024	ND	201	101	200	0.900	
EXT DRO >C28-C36	933	50.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 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:	04/18/2024	Sampling Date:	04/17/2024
Reported:	04/19/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03435	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 7 (7.0') (H242065-06)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.25	113	2.00	3.82	
Toluene*	<0.050	0.050	04/18/2024	ND	2.48	124	2.00	8.03	
Ethylbenzene*	0.281	0.050	04/18/2024	ND	2.62	131	2.00	10.1	
Total Xylenes*	0.970	0.150	04/18/2024	ND	7.87	131	6.00	10.4	GC-NC1
Total BTEX	1.27	0.300	04/18/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 157 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/18/2024	ND	480	120	400	0.00	

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*	130	50.0	04/18/2024	ND	199	99.6	200	1.76	
DRO >C10-C28*	4810	50.0	04/18/2024	ND	201	101	200	0.900	
EXT DRO >C28-C36	1280	50.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane 135 % 48.2-134

Surrogate: 1-Chlorooctadecane 161 % 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:	04/18/2024	Sampling Date:	04/17/2024
Reported:	04/19/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03435	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 8 (7.0') (H242065-07)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2024	ND	2.25	113	2.00	3.82	
Toluene*	<0.050	0.050	04/18/2024	ND	2.48	124	2.00	8.03	
Ethylbenzene*	0.319	0.050	04/18/2024	ND	2.62	131	2.00	10.1	
Total Xylenes*	0.995	0.150	04/18/2024	ND	7.87	131	6.00	10.4	GC-NC1
Total BTEX	1.36	0.300	04/18/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 146 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/18/2024	ND	480	120	400	0.00	

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*	113	50.0	04/18/2024	ND	199	99.6	200	1.76	
DRO >C10-C28*	5900	50.0	04/18/2024	ND	201	101	200	0.900	
EXT DRO >C28-C36	1770	50.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 163 % 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:	04/18/2024	Sampling Date:	04/17/2024
Reported:	04/19/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03435	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 9 (7.0') (H242065-08)

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	04/18/2024	ND	2.25	113	2.00	3.82		
Toluene*	<0.050	0.050	04/18/2024	ND	2.48	124	2.00	8.03		
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.62	131	2.00	10.1		
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.87	131	6.00	10.4		
Total BTEX	<0.300	0.300	04/18/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	04/18/2024	ND	480	120	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	04/18/2024	ND	199	99.6	200	1.76	
DRO >C10-C28*	14.5	10.0	04/18/2024	ND	201	101	200	0.900	
EXT DRO >C28-C36	<10.0	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	04/18/2024	Sampling Date:	04/17/2024
Reported:	04/19/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03435	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 10 (7.0') (H242065-09)

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	04/18/2024	ND	2.25	113	2.00	3.82		
Toluene*	<0.050	0.050	04/18/2024	ND	2.48	124	2.00	8.03		
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.62	131	2.00	10.1		
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.87	131	6.00	10.4		
Total BTEX	<0.300	0.300	04/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	1020	16.0	04/18/2024	ND	464	116	400	0.00	QM-07	

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	04/18/2024	ND	199	99.6	200	1.76	
DRO >C10-C28*	18.2	10.0	04/18/2024	ND	201	101	200	0.900	
EXT DRO >C28-C36	<10.0	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 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:	04/18/2024	Sampling Date:	04/17/2024
Reported:	04/19/2024	Sampling Type:	Soil
Project Name:	MCA - 265 TEST LINE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03435	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 13 (7.0') (H242065-10)

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	04/18/2024	ND	2.25	113	2.00	3.82		
Toluene*	<0.050	0.050	04/18/2024	ND	2.48	124	2.00	8.03		
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.62	131	2.00	10.1		
Total Xylenes*	<0.150	0.150	04/18/2024	ND	7.87	131	6.00	10.4		
Total BTEX	<0.300	0.300	04/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	04/18/2024	ND	480	120	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	04/18/2024	ND	199	99.6	200	1.76	
DRO >C10-C28*	17.9	10.0	04/18/2024	ND	201	101	200	0.900	
EXT DRO >C28-C36	<10.0	10.0	04/18/2024	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 1 of 1

Client Name: **Maverick Natural Resources**

Site Manager: **Chuck Terhune**

Project Name: **MCA 265 Test Line**

281-755-8965

Project Location: **Lea County, NM**

chuck.terhune@tetratech.com

Invoice to: **Attn: Chuck Terhune**

212C-MD-03435

Receiving Laboratory: **Cardinal Labs**

Sampler Signature: **Jorge Fernandez**

Comments:

Include : Chris Straub Chris.Straub@tetratech.com

LAB #
LAB USE ONLY

SAMPLE IDENTIFICATION

LAB #	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	# CONTAINERS	FILTERED (Y/N)
1	SW-9	4/17/2024	X						
2	SW-10	4/17/2024	X						
3	SW-11	4/17/2024	X						
4	SW-12	4/17/2024	X						
5	BH-6 (7.0')	4/17/2024	X						
6	BH-7 (7.0')	4/17/2024	X						
7	BH-8 (7.0')	4/17/2024	X						
8	BH-9 (7.0')	4/17/2024	X						
9	BH-10 (7.0')	4/17/2024	X						
10	BH-13 (7.0')	4/17/2024	X						

Inquired by: **Chris Straub** Date: **4-18-24** Time: **0900**

Received by: **Chuck Terhune** Date: **4-18-24** Time: **0903**

Inquired by: **Chris Straub** Date: **4-18-24** Time: **0900**

Received by: **Chuck Terhune** Date: **4-18-24** Time: **0903**

ANALYSIS REQUEST
(Circle or Specify Method No.)

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

REMARKS: **Standard TAT**

LAB USE ONLY
Sample Temperature
-20.0

☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:



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

April 22, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MAVERICK - MCA 265

Enclosed are the results of analyses for samples received by the laboratory on 04/19/24 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:

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

Received:	04/19/2024	Sampling Date:	04/19/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	MAVERICK - MCA 265	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: BH 7 @ 8' (H242119-01)

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	04/20/2024	ND	2.18	109	2.00	3.37		
Toluene*	<0.050	0.050	04/20/2024	ND	2.11	106	2.00	3.15		
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.06	103	2.00	2.99		
Total Xylenes*	<0.150	0.150	04/20/2024	ND	6.03	100	6.00	2.88		
Total BTX	<0.300	0.300	04/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8100	16.0	04/22/2024	ND	480	120	400	0.00	QM-07	

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	04/19/2024	ND	192	96.0	200	2.77	
DRO >C10-C28*	43.1	10.0	04/19/2024	ND	196	98.0	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 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: 04/19/2024
 Reported: 04/22/2024
 Project Name: MAVERICK - MCA 265
 Project Number: NONE GIVEN
 Project Location: LEA CO NM

Sampling Date: 04/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 6 @ 8' (H242119-02)

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	04/20/2024	ND	2.18	109	2.00	3.37		
Toluene*	<0.050	0.050	04/20/2024	ND	2.11	106	2.00	3.15		
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.06	103	2.00	2.99		
Total Xylenes*	<0.150	0.150	04/20/2024	ND	6.03	100	6.00	2.88		
Total BTEx	<0.300	0.300	04/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7400	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	192	96.0	200	2.77	
DRO >C10-C28*	23.0	10.0	04/19/2024	ND	196	98.0	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 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: 04/19/2024
 Reported: 04/22/2024
 Project Name: MAVERICK - MCA 265
 Project Number: NONE GIVEN
 Project Location: LEA CO NM

Sampling Date: 04/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH 8 @ 8' (H242119-03)

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	04/20/2024	ND	2.18	109	2.00	3.37		
Toluene*	<0.050	0.050	04/20/2024	ND	2.11	106	2.00	3.15		
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.06	103	2.00	2.99		
Total Xylenes*	<0.150	0.150	04/20/2024	ND	6.03	100	6.00	2.88		
Total BTEx	<0.300	0.300	04/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5700	16.0	04/22/2024	ND	480	120	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	04/20/2024	ND	192	96.0	200	2.77	
DRO >C10-C28*	27.9	10.0	04/20/2024	ND	196	98.0	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	04/20/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Caley D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: teratech		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Chuck Tehave		Company: Maverick					
Address:		Attn: Bye W.					
City:		Address:					
State:		City:					
Zip:		State:					
Phone #:		Fax #:					
Project #:		Project Owner:					
Project Name: Maverick - MCA 265		City:					
Project Location: Lee Co. NM		State:					
Sample Name: Ag		Phone #:					
FOR LAB USE ONLY		Fax #:					
Lab I.D.		(G)RAB OR (C)OMP.					
Sample I.D.		# CONTAINERS					
Matrix		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER:					
		ACID/BASE:					
		ICE / COOL					
		OTHER:					
Date: 4/19		DATE		2024			
Time: 1:25		TIME					
Relinquished By: Chad		BTEX					
Received By: Maverick		TPH					
Date: 4/19		Chloride					
Time: 1:25							
Relinquished By: Chad							
Received By: Maverick							
Date: 4/19							
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Remediation/Reclamation Report and Closure Request
Maverick Permian, LLC
MCA Unit #265 Test Line Release
Incident ID: nGRL1131428247

August 23, 2024

ATTACHMENT 5 - SEED MIXTURE DETAILS

NMSLO Seed Mix**Sandy (S)****SANDY (S) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	2.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Black grama	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	4.0	S
Plains bristlegrass	VNS, Southern	2.0	D
Forbs:			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
Shrubs:			
Fourwing Saltbush	VNS, Southern	1.0	F
Total PLS/acre		16.0	

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>.



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QUESTIONS

Action 376871

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 376871
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nGRL1131428247
Incident Name	NGRL1131428247 MCA UNIT #265 @ 30-025-23686
Incident Type	Oil Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-23686] MCA UNIT #265

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MCA UNIT #265
Date Release Discovered	10/25/2011
Surface Owner	Federal

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 Flow Line - Production Crude Oil Released: 8 BBL Recovered: 0 BBL Lost: 8 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 6 BBL Recovered: 0 BBL Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	C-141 submitted for record, Maverick Permian, LLC was not the operator of the Site when the release occurred.

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QUESTIONS, Page 2

Action 376871

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	376871
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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: 08/27/2024
--	--

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QUESTIONS, Page 3

Action 376871

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	376871
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
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 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 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 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (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	Yes

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
---	-----

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.

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)	8100
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	24390
GRO+DRO (EPA SW-846 Method 8015M)	21000
BTEX (EPA SW-846 Method 8021B or 8260B)	50.6
Benzene (EPA SW-846 Method 8021B or 8260B)	0.7

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

On what estimated date will the remediation commence	04/19/2024
On what date will (or did) the final sampling or liner inspection occur	04/19/2024
On what date will (or was) the remediation complete(d)	04/24/2024
What is the estimated surface area (in square feet) that will be reclaimed	2200
What is the estimated volume (in cubic yards) that will be reclaimed	768
What is the estimated surface area (in square feet) that will be remediated	2200
What is the estimated volume (in cubic yards) that will be remediated	768

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

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

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QUESTIONS, Page 4

Action 376871

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	376871
	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: 08/27/2024
<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 376871

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 376871
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 376871

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	376871
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	342722
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/15/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	400

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	2200
What was the total volume (cubic yards) remediated	768
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	2200
What was the total volume (in cubic yards) reclaimed	768
Summarize any additional remediation activities not included by answers (above)	Impacted soils removed and disposed of off-site, replaced with clean soil from caviness Pit, graded, and seeded.

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: 08/27/2024
--	--

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QUESTIONS, Page 7

Action 376871

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	376871
	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	2200
What was the total volume of replacement material (in cubic yards) for this site	768
<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)	04/25/2024
Summarize any additional reclamation activities not included by answers (above)	None
<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: 08/27/2024

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

QUESTIONS, Page 8

Action 376871

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 376871
	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 376871

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 376871
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	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 reseeding activities, inspections, and final pictures when revegetation is achieved.	8/30/2024