

March 22, 2024

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

Subject: Remediation Report and Closure Request

Maverick Permian, LLC

Vacuum ABO 13-3 Flowline Release

Unit Letter L, Section 4, Township 18 South, Range 35 East

Lea County, New Mexico Incident ID# nPAC0716533924

Dear Sir or Madam.

Tetra Tech, Inc. (Tetra Tech) was initially contracted by the previous operator, ConocoPhillips, to assess a historical release that occurred from a flowline associated with the Vacuum ABO Unit 13-3 flowline (associated API No. 30-025-03045) in Public Land Survey System (PLSS) Unit Letter L, Section 4, Township 18 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.780614°, -103.463791°, as shown in **Figure 1** and **Figure 2**. In 2022 Maverick Permian LLC (Maverick) acquired the Site from COP, began operating the Site in June 2022, and undertook the remediation activities described in this report.

#### **BACKGROUND**

According to the State of New Mexico C-141 Initial Report, the release was discovered on May 31, 2007. The release occurred as the result of external erosion to a 2 %-inch flowline encompassing an area of approximately 23,900 square feet. The release consisted of approximately 33 barrels (bbls) of produced water and 7 bbls of oil. During immediate response actions, 10 bbls of produced water and 2 bbls of oil were recovered. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on June 4, 2007, and subsequently assigned the release Incident ID nPAC0716533924. This release is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019.

The original C-141 Form associated with this release was previously submitted to the NMOCD in the NMOCD-approved COP *Release Characterization and Remediation Work Plan* (Remediation Work Plan) dated February 8, 2021, submitted to the NMOCD on September 2, 2021, and is available in the NMOCD Permitting portal under Incident ID nPAC0716533924.

#### SITE CHARACTERIZATION

#### Receptors

Tetra Tech performed a site characterization that identified no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). Based on a review of the NMOCD Oil and Gas Map online, the site is in an area of low karst potential. Receptor site characterization data is included in **Attachment 1**.

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#### **Depth to Groundwater**

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are three (3) water wells within ½ mile of the Site. The average depth to groundwater is 60 feet below ground surface (bgs). The depth to water characterization was approved by the NMOCD in the Remediation Work Plan on March 17, 2023. groundwater data is included in **Attachment 1**.

#### Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as Kimbrough-Lea complex, dry, 0 to 3 percent slopes, which is classified as a loam soil. The USDA NCRS Soil Map and soil profile are provided in **Attachment 1**.

#### 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 site characterization approved by the NMOCD Remediation Work Plan, and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site for groundwater between 51 and 100 feet bgs are as follows:

#### Closure Criteria for Soils Impacted by a Release

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

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

#### **Reclamation Requirements**

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

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#### SITE ASSESSMENT SUMMARY

At the request of COP, Tetra Tech performed a desktop review of available historical aerial imagery revealing evidence of a release extent and apparent remedial activities in the vicinity of the reported release location obtained from the C-141. Tetra Tech subsequently mobilized to the site and performed a visual Site inspection in June 2020 where surface areas in the pasture were observed to have been partially excavated or scraped, and partial vegetative cover was observed in the observed release footprint. Photographic documentation of the visual Site inspection is available from the NMOCD Permitting portal in the previously submitted Remediation Work Plan under Incident ID nPAC0716533924.

#### Soil Sampling

Tetra Tech personnel returned to Site on behalf of COP in November and December 2020 to conduct assessment soil sampling and delineate the observed release extent. Three (3) borings (BH-1 through BH-3) were installed using an air rotary drilling rig to depths of 20 feet bgs within the interior of the observed release extent to achieve vertical delineation. Four (4) borings (BH-4 through BH-7) were installed with the air rotary drilling rig along the perimeter of the release extent to a depth of 4 feet bgs. Additionally, one (1) hand auger boring (AH-1) was advanced along the perimeter of the release to a depth of 1 foot bgs to complete horizontal delineation of the release. Soils at the Site consist of approximately 1.5 feet of brown silty clay underlain by a caliche cap rock. **Figure 3** depicts the release extent and the 2020 soil boring locations, and soil boring locations coordinates are presented in **Table 1**.

Soils were field screened for salinity using an ExTech EC400 ExStik and for volatile organics using a photoionization detector (PID) to determine sampling intervals. A total of 30 soil samples were collected from the seven (7) borings (BH-1 through BH-6, and AH-1) and submitted to Pace Analytical Laboratory in Mount Juliet, Tennessee (Pace) for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method 300.0. Laboratory analytical data packages including chain-of-custody documentation are available from the NMOCD Permitting portal in the previously submitted Remediation Work Plan under Incident ID nPAC0716533924.

#### **Assessment Sampling Results**

The laboratory analytical results from the November and December 2020 soil sampling events are summarized in **Table 2** screened against Reclamation Requirements. The laboratory analytical results reported chloride at a concentration greater than the Reclamation Requirements at interior soil boring BH-2 in the 2-3 foot sample interval and TPH at concentrations greater than TPH Reclamation Requirements in the 0-1 foot and 2-3 foot sample intervals. Laboratory analytical results for all other assessment soil samples reported constituent concentrations as less than BTEX, TPH, and chloride Reclamation Requirements. Vertical and horizontal delineation was achieved during the November and December 2020 assessment sampling events.

#### NMOCD-APPROVED REMEDIATION WORK PLAN

On March 17, 2023, NMOCD approved the COP-submitted Remediation Work Plan which proposed to remove the remaining impacted material in the area around sample location BH-2 using heavy equipment to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation reported constituent concentrations as less than Reclamation Requirements.

Excavated soils were proposed to be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples to be collected for verification of remedial activities and analyzed for BTEX, TPH, and chloride. Upon receipt of laboratory analytical results, NMOCD to be notified and then the excavation to be backfilled with clean material to surface grade. The estimated volume of material to be remediated was approximately 2,500 cubic yards.

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#### **CULTURAL RESOURCES SURVEY**

To comply with 1.10.15 NMAC and New Mexico State Land Office (NMSLO) requirements, Tetra Tech contracted SWCA Environmental Consultants to perform a Class III Cultural Resources Survey for the remediation area under New Mexico Cultural Resources Investigation System (NMCRIS) Activity No. 84275. Ms. Alissa Healy of SWCA conducted the survey on September 27, 2023, which included an intensive pedestrian survey of the Vacuum ABO 13-3 Flowline Release remediation site and immediate vicinity covering 5.03 acres, which included a 100-ft cultural resources buffer around the location.

No archaeological sites or historic properties were observed during the investigation. No additional investigation or treatment is recommended regarding the current undertaking. No subsurface cultural materials were encountered during remediation. The cover page from the Class III Cultural Resources Survey is included in **Attachment 3**.

#### ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, COP proposed an alternative confirmation sampling plan including floor and sidewall confirmation sidewall samples to verify remedial activities over the proposed excavation. On March 17, 2023, the NMOCD approved the Remediation Work Plan with conditions for the sampling variance of a sampling density of one sample per every 500 square feet of sidewall and base area.

#### REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced on February 26, 2024, and concluded on March 15, 2024. Maverick's subcontractor, McNabb used heavy equipment to excavate impacted soil from the remediation areas to maximum depths of 4 feet bgs as shown in **Figure 5**. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed. McNabb excavated a total of 2,562 cubic yards of contaminated soil from an approximately 14,800 square foot area and transported the soil to R360 Halfway landfill in Lea County, New Mexico for offsite disposal.

#### **Confirmation Sampling Notification**

On February 23, 2024, Tetra Tech notified the NMOCD of the initial confirmation sampling through the submission of a C-141N Sampling Notification submission in the NMOCD Permitting portal and provided subsequent sampling notification updates through email to ocd.enviro@emnrd.nm.gov and via submissions of C-141N Sampling Notification submissions in the NMOCD Permitting portal. On February 13, 2024, Tetra Tech notified the NMOCD of final sampling for the final confirmation sampling at the Site performed on February 15, 2024, 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 nPAC0716533924.

#### **Confirmation Sampling**

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 56 confirmation samples including 31 floor samples and 25 side wall samples from the excavated areas. The remediation excavation confirmation sampling area was comprised of an approximately 14,750 square foot base and 1,900 square feet of sidewall for a total area of 16,650 square feet and a sampling density of approximately one confirmation sample per 300 square feet.

Confirmation samples were submitted to Cardinal Laboratory in Hobbs, New Mexico for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B. Laboratory analytical results for submitted confirmation samples reported concentrations of BTEX, TPH, and chloride as less than respective Reclamation

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Requirements for samples collected from depths shallower than 4 feet bgs. For all samples obtained at or below a depth of 4 feet bgs, laboratory analytical results reported constituent concentrations as less than Remediation RRALs and clean margins were demonstrated. Confirmation sampling locations and excavation extents are shown in **Figure 5**.

Confirmation sample laboratory analytical results screened against Reclamation Requirements and RRALs are summarized in **Table 3** and **Table 4** and laboratory analytical data packages including chain of custody documentation are included in **Attachment 4**.

#### **Excavation Backfill**

Between March 15 and 18, 2024, subsequent to the receipt of confirmation sample results, McNabb completed backfilling of the excavated areas with 2,373 cubic yards of clean soil, 66 cubic yards sourced from Sutton Pit, 658 cubic yards sourced from Blevins Pit, 630 cubic yards sourced from Berry Pit, and 1,019 cubic yards sourced from Boyd Pit. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Attachment 5**.

#### **Reclamation and Revegetation**

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

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

#### CONCLUSION

Based on the results of the confirmation sampling, the impacted soil within the release footprint with chloride concentrations greater than Reclamation Requirements and/or remediation RRALs has been removed and properly disposed of offsite and the excavated area has been backfilled with clean material, graded, and seeded with NMSLO approved seed mixture; therefore, Site remediation is complete. A Reclamation Report for the Site will be submitted to the NMOCD under separate cover containing the NMOCD required information. If you have any questions concerning the remediation activities for the Site, please contact Chris Straub by email at Chris.Straub@tetratech.com or by phone at (832) 251-5180.

Sincerely,

Chris Straub Project Manager

Tetra Tech, Inc.

Charles H. Terhune IV, P.G.

Program Manager

Tetra Tech, Inc.

cc: Bryce Wagoner, Maverick Permian, LLC

New Mexico State Land Office

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#### LIST OF ATTACHMENTS

#### **Figures**

- Figure 1 Site Location Map
- Figure 2 Topographic Map
- Figure 3 Release Extent and Site Assessment Map
- Figure 4 Proposed Remediation Extent
- Figure 5 Remediation Excavation Extent & Confirmation Sampling

#### **Tables**

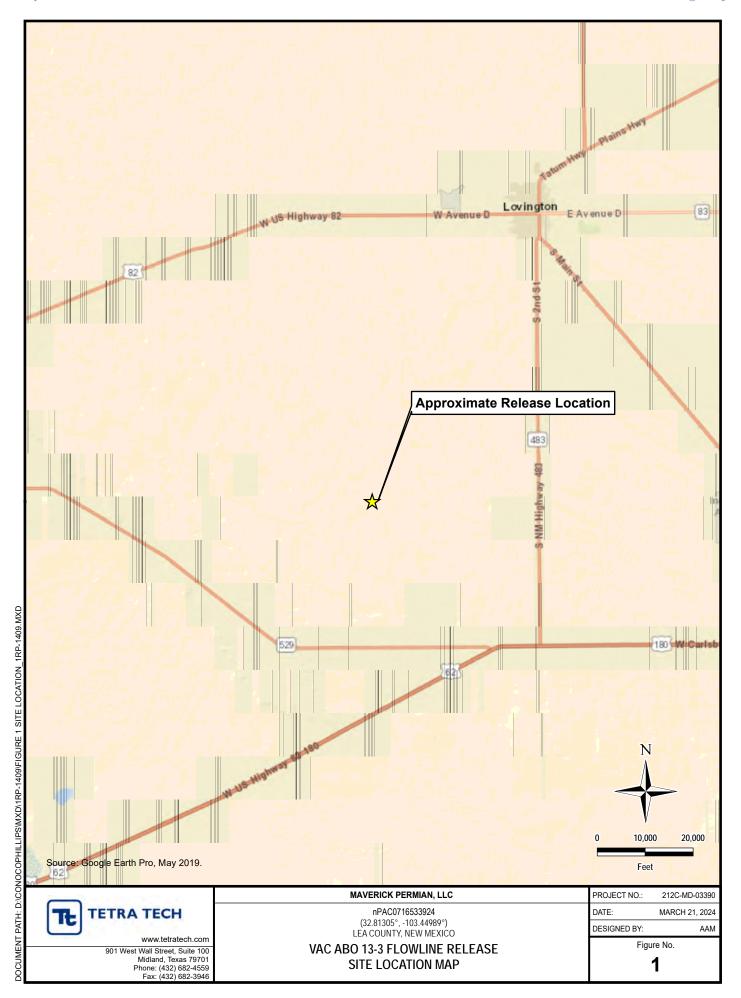
- Table 1 Assessment Soil Boring Locations
- Table 2 Summary of Analytical Results Soil Assessment Sampling
- Table 3 Summary of Shallow Soil Analytical Results Confirmation Sampling
- Table 4 Summary of Deep Soil Analytical Results Confirmation Sampling

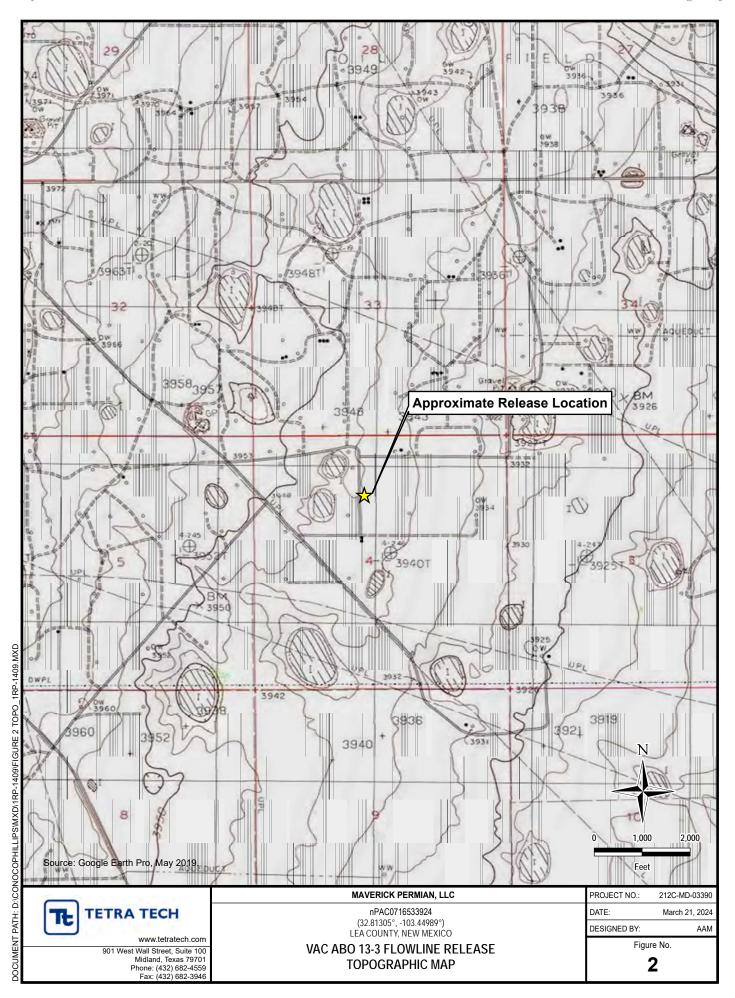
#### **Attachments**

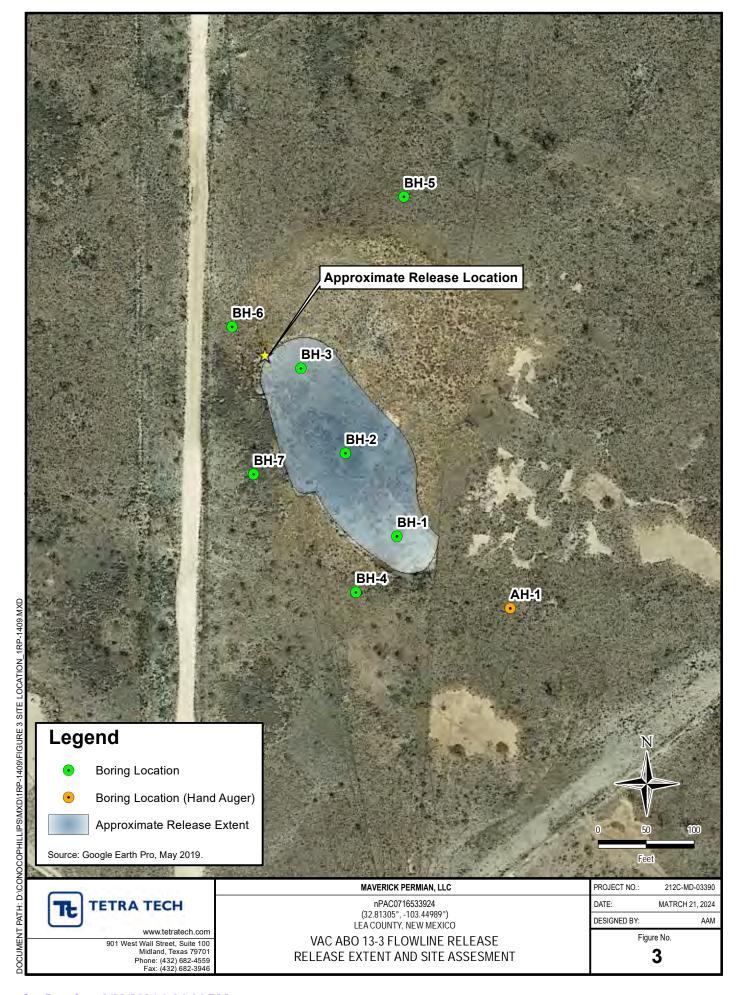
- Attachment 1 Site Characterization Data
- Attachment 2 Cultural Resource Survey Cover Sheet
- Attachment 3 Laboratory Analytical Data
- Attachment 4 Photographic Documentation
- Attachment 5 Seed Mixture Details

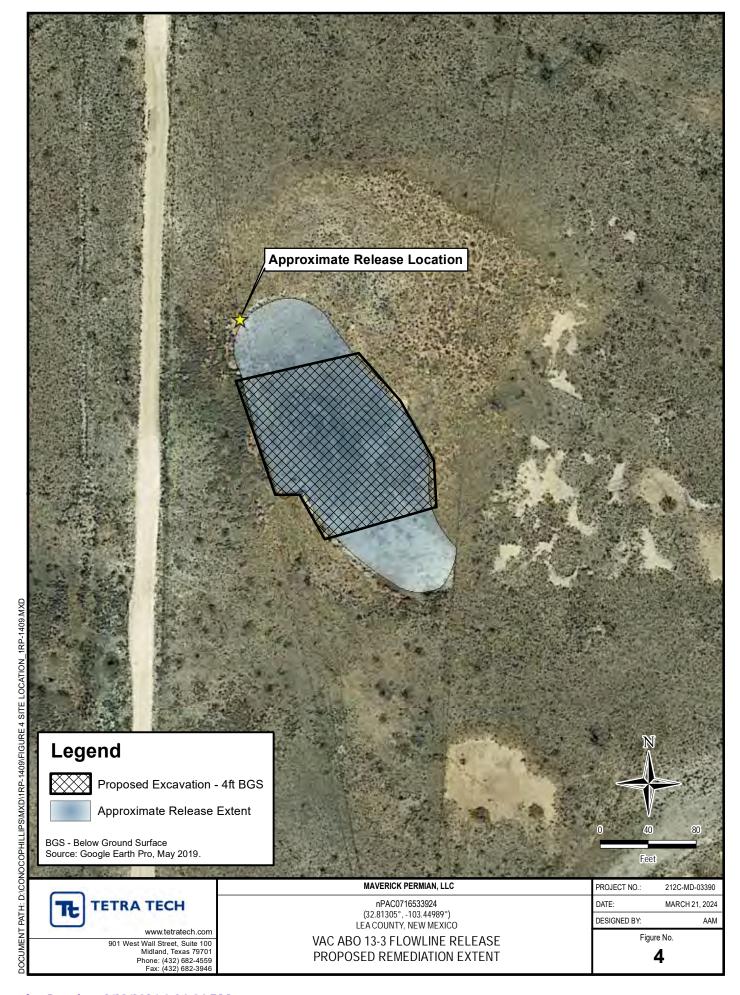
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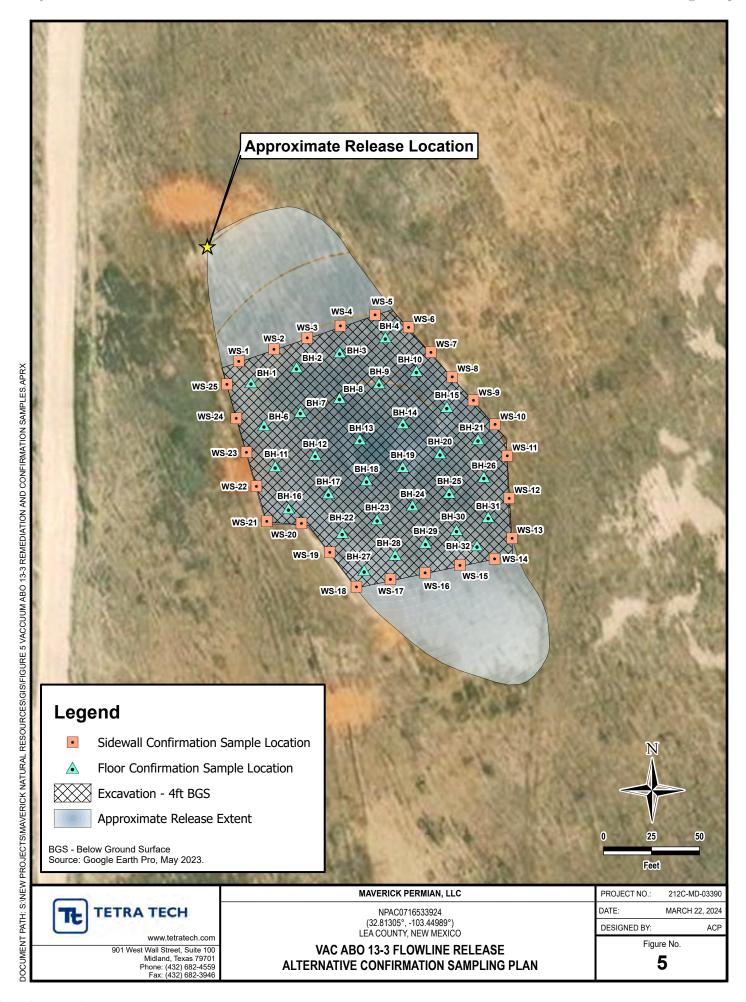
# **FIGURES**











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# **TABLES**



# TABLE 1 SOIL ASSESSMENT BORING LOCATIONS INCIDENT NPAC0716533924 MAVERICK PERMIAN, LLC Vacuum ABO 13-3 FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

Boring ID	Date	Latitude	Longitude
AH - 1	12/2/2020	32.779881	-103.462966
BH-1	11/17/2020	32.780090	-103.463347
BH-2	11/17/2020	32.780329	-103.463520
BH-3	11/17/2020	32.780573	-103.463669
BH-4	11/17/2020	32.779931	-103.463489
BH-5	11/17/2020	32.781060	-103.463314
BH-6	11/17/2020	32.780693	-103.463901
BH-7	11/17/2020	32.780270	-103.463832



# TABLE 2 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT SAMPLING - INCIDENT NPAC0716533924 MAVERICK PERMIAN, LLC VACCUM ABO 13-3 FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

									BTEX <sup>2</sup>										TPH <sup>3</sup>		
0	0 1. 5.4	Sample Depth	Chlorid	e <sup>1</sup>					<b>=</b> 41. 11.		<b>-</b> (1)		TALLET		GRO	1	DRO		ORO		Total TPH
Sample ID	Sample Date				Benzen	Đ	Toluene	<del>)</del>	Etnylbenze	ene	Total Xylene	es	Total BTE	X	C <sub>6</sub> - C	10	> C <sub>10</sub> - C	28	> C <sub>28</sub> - C	36	(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	mg/kg
Reclamation Req	uirements (19.15.29	NMAC)	600		10								50								100
AH-1	12/2/2020	0.0 - 1.0	< 20.4		0.000495	J	<0.00521		<0.00260		0.00156	J	0.002055		< 0.102		3.35	ВJ	17.5		21
	11/17/2020	0.0 - 1.0	< 20.7		< 0.00107		<0.00537		<0.00269		<0.00698		-		0.0228	ВJ	< 4.15		0.684	J	0.7068
	11/17/2020	2.0 - 3.0	< 20.9		<0.00109		< 0.00543		<0.00271		<0.00705		-		0.0237	ВJ	< 4.17		0.611	J	0.6347
	11/17/2020	4.0 - 5.0	28.1		<0.00113		<0.00565		<0.00283		<0.00735		-		< 0.107		< 4.26		0.647	J	0.647
BH-1	11/17/2020	6.0 - 7.0	65.9		<0.00111		<0.00557		<0.00279		<0.00724		-		0.0295	ВJ	< 4.23		0.457	J	0.4865
	11/17/2020	9.0 - 10.0	254		<0.00121		<0.00607		<0.00303		<0.00789		-		0.027	ВJ	< 4.43		< 4.43		0.027
	11/17/2020	14.0 - 15.0	61.5		<0.00115		<0.00577		<0.00288		<0.0075		-		0.0276	ВJ	< 4.31		0.437	J	0.4646
	11/17/2020	19.0 - 20.0	60.6		<0.00118		<0.00592		<0.00296		< 0.0077		-		0.0268	ВJ	< 4.37		< 4.37		0.0268
	11/17/2020	0.0 - 1.0	187		< 0.00104		< 0.00521		<0.00261		<0.00678		-		0.0275	ВJ	34.7		108		142.7275
	11/17/2020	2.0 - 3.0	605		<0.00111		<0.00557		<0.00278		<0.00724		-		0.031	ВЈ	38.3		118		156.331
	11/17/2020	4.0 - 5.0	344		< 0.00107		< 0.00534		<0.00267		<0.00694		-		0.031	ВЈ	17.1		55.6		72.731
BH-2	11/17/2020	6.0 - 7.0	501		< 0.00112		< 0.00561		<0.00281		< 0.0073		-		0.031	ВJ	< 4.24		< 4.24		0.031
	11/17/2020	9.0 - 10.0	104		<0.00116		<0.00581		<0.00291		<0.00755		-		0.0299	ВЈ	< 4.32		0.476	J	0.5059
	11/17/2020	14.0 - 15.0	45.3		< 0.00117		<0.00584		<0.00292		<0.00759		-		0.0285	ВЈ	< 4.33		0.926	J	0.9545
	11/17/2020	19.0 - 20.0	55.3		<0.00108		<0.00538		<0.00269		<0.00699		-		0.0244	ВЈ	< 4.15		3.44	J	3.4644
	11/17/2020	0.0 - 1.0	71.8		<0.00108		< 0.00539		<0.0027		<0.00701		-		0.0265	ВJ	6.1		21		27.1265
	11/17/2020	2.0 - 3.0	85.7		< 0.00104		<0.00522		<0.00261		<0.00678		-		0.029	ВЈ	< 4.09		2.97	J	2.999
	11/17/2020	4.0 - 5.0	403		< 0.00111		<0.00557		<0.00278		<0.00724		-		0.0929	ВЈ	< 4.23		0.753	J	0.8459
BH-3	11/17/2020	6.0 - 7.0	54.1		< 0.0012		<0.00599		<0.00299		<0.00778		-		0.104	ВЈ	< 4.39		0.5	J	0.604
	11/17/2020	9.0 - 10.0	43.4		< 0.00112		< 0.00561		<0.00281		<0.00730		-		0.0791	ВЈ	< 4.24		0.491	J	0.5701
	11/17/2020	14.0 - 15.0	22.4		< 0.00107		<0.00534		<0.00267		<0.00694		-		0.148	В	< 4.14		0.562	J	0.71
	11/17/2020	19.0 - 20.0	70.4		< 0.00101		<0.00506		<0.00253		<0.00658		-		0.102	В	< 4.02		< 4.02		0.102
DI I 4	11/17/2020	0.0 - 1.0	< 21.4		< 0.00114		< 0.00569		<0.00285		<0.00740	T	-		0.124	В	3.38	J	8.47		11.974
BH-4	11/17/2020	3.0 - 4.0	10.7		< 0.00112		<0.0056		<0.0028		<0.00728		-		0.167	В	5.7		9		14.867
DUC	11/17/2020	0.0 - 1.0	< 20.6		<0.00106		<0.00529		<0.00264		<0.00687	1	-		0.135	В	2.75	J	11.8		14.685
BH-5	11/17/2020	3.0 - 4.0	< 20.7		<0.00107		<0.00535		<0.00267		<0.00695	1	-		0.236	В	< 4.14		1.16	J	1.396
DULG	11/17/2020	0.0 - 1.0	< 20.4		<0.00104		<0.00518		<0.00259		<0.00674	┪	-		0.104	В	6.44		21.5		28.044
BH-6	11/17/2020	3.0 - 4.0	14.7		<0.00104		<0.0052		<0.00260		<0.00676	1	-		0.0433	ВЈ	< 4.08		5.94		5.9833
DULG	11/17/2020	0.0 - 1.0	< 20.5		<0.00105		<0.00526		<0.00263		<0.00683	T	-		0.11	В	< 4.10		5.2		5.31
BH-6	11/17/2020	3.0 - 4.0	< 21.4		<0.00114		<0.00571		<0.00285		<0.00742	1	-		0.382	В	< 4.28		1.19	J	1.572
				-			•	-	•	•						_		•		•	

#### 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



# TABLE 3 SUMMARY OF ANALYTICAL RESULTS SHALLOW SOIL CONFIRMATION SAMPLING - INCIDENT NPAC0716533924 MAVERICK PERMIAN, LLC VACCUM ABO 13-3 FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

							BTEX <sup>2</sup>								TPH <sup>3</sup>	
0	Occupie Date	Sample Depth	Chloride <sup>1</sup>			Talana	Ed. II.	T-4-I V-I	Τ	T-4-L DTE		GRO		DRO	EXT DRO	Total TPH
Sample ID	Sample Date			Benzen	е	Toluene	Etnylbenzene	Total Xylenes	S	Total BTE	X	C <sub>6</sub> - C <sub>10</sub>		> C <sub>10</sub> - C <sub>28</sub>	> C <sub>28</sub> - C <sub>36</sub>	(GRO+DRO+EXT DRO)
		feet bgs	mg/kg Q	mg/kg	Q	mg/kg Q	mg/kg Q	mg/kg Q	2	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg Q	mg/kg
<b>Reclamation Req</b>	uirements (19.15.29	NMAC)	600	10						50						100
WS - 1	3/13/2024	0.0-4.0	<16.0	< 0.050		<0.050	<0.050	<0.150		<0.300		<10.0		<10.0	<10.0	-
WS - 2	3/13/2024	0.0-4.0	16	< 0.050		<0.050	<0.050	<0.150		<0.300		<10.0		<10.0	<10.0	-
WS - 3	3/13/2024	0.0-4.0	16	< 0.050		<0.050	<0.050	<0.150		<0.300		<10.0		<10.0	<10.0	-
WS - 4	3/13/2024	0.0-4.0	32	< 0.050		<0.050	<0.050	<0.150		<0.300		<10.0		<10.0	<10.0	-
WS - 5	3/8/2024	0.0-4.0	32	< 0.050		<0.050	<0.050	<0.150		<0.300		<10.0		<10.0	<10.0	-
WS - 6	3/8/2024	0.0-4.0	80	< 0.050		<0.050	<0.050	<0.150		<0.300		<10.0		<10.0	<10.0	-
WS - 7	3/8/2024	0.0-4.0	32	< 0.050		<0.050	<0.050	<0.150		< 0.300		<10.0	T	<10.0	<10.0	-
WS - 8	3/8/2024	0.0-4.0	80	< 0.050		<0.050	< 0.050	<0.150		< 0.300		<10.0	T	<10.0	<10.0	-
WS - 9	3/8/2024	0.0-4.0	64	< 0.050		< 0.050	< 0.050	<0.150	1	< 0.300		<10.0	T	<10.0	<10.0	-
WS - 10	3/1/2024	0.0-4.0	<16.0	< 0.050		< 0.050	< 0.050	<0.150	Ī	< 0.300		<10.0		<10.0	<10.0	-
WS - 11	3/1/2024	0.0-4.0	<16.0	< 0.050		<0.050	< 0.050	<0.150		< 0.300	T	<10.0	寸	<10.0	<10.0	-
WS - 12	3/1/2024	0.0-4.0	16	< 0.050		<0.050	< 0.050	<0.150		< 0.300		<10.0	T	<10.0	<10.0	-
WS - 13	3/1/2024	0.0-4.0	16	< 0.050		<0.050	< 0.050	<0.150		< 0.300		<10.0	T	<10.0	<10.0	-
WS - 14	3/1/2024	0.0-4.0	48	< 0.050		<0.050	< 0.050	<0.150		< 0.300	T	<10.0	寸	<10.0	<10.0	-
WS - 15	3/1/2024	0.0-4.0	64	< 0.050		<0.050	< 0.050	<0.150		< 0.300	T	<10.0	寸	<10.0	<10.0	-
WS - 16	3/1/2024	0.0-4.0	48	< 0.050		<0.050	< 0.050	<0.150		< 0.300	T	<10.0	寸	<10.0	<10.0	-
WS - 17	3/1/2024	0.0-4.0	32	< 0.050		< 0.050	< 0.050	<0.150		< 0.300	T	<10.0	寸	<10.0	<10.0	-
WS - 18	3/1/2024	0.0-4.0	64	< 0.050		<0.050	< 0.050	< 0.150	Ī	< 0.300		<10.0		<10.0	<10.0	-
WS - 19	3/7/2024	0.0-4.0	208	< 0.050		<0.050	< 0.050	<0.150		< 0.300	T	<10.0	T	<10.0	<10.0	-
WS - 20	3/12/2024	0.0-4.0	64	< 0.050		< 0.050	< 0.050	<0.150	十	<0.300	T	<10.0	寸	<10.0	<10.0	-
WS - 21	3/12/2024	0.0-4.0	112	< 0.050		< 0.050	< 0.050	<0.150	Ī	< 0.300	T	<10.0	T	<10.0	<10.0	-
WS - 22	3/12/2024	0.0-4.0	16	< 0.050		< 0.050	< 0.050	<0.150	十	<0.300	T	<10.0	寸	<10.0	<10.0	-
WS - 23	3/12/2024	0.0-4.0	48	< 0.050		< 0.050	< 0.050	<0.150	十	<0.300	丁	<10.0	寸	<10.0	<10.0	-
WS - 24	3/12/2024	0.0-4.0	<16.0	< 0.050		< 0.050	< 0.050	<0.150	T	<0.300	T	<10.0	寸	<10.0	<10.0	-
WS - 25	3/12/2024	0.0-4.0	<16.0	< 0.050		< 0.050	< 0.050	<0.150	十	<0.300	寸	<10.0	寸	<10.0	<10.0	-

### NOTES:

bgs: Below ground surface mg/kg: Milligrams per kilogram TPH: Total Petroleum Hydrocarbons GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

1: Method SM4500CI-B

2: Method 8021B3: 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 NPAC0716533924** MAVERICK PERMIAN, LLC Vacuum ABO 13-3 FLOWLINE RELEASE LEA COUNTY, NEW MEXICO

									BTEX <sup>2</sup>										TP	$H^3$		
		Sample Depth	Chlorid	e <sup>1</sup>				T							GRO		DRO		EXT DRO	_	TPH	Total TPH
Sample ID	Sample Date				Benzene	•	Toluene		Ethylbenzer	ne	Total Xylei	nes	Total BT	EX	C <sub>6</sub> - C <sub>10</sub>		> C <sub>10</sub> - C	28	> C <sub>28</sub> - C <sub>30</sub>	6	GRO+DRO	GRO+DRO+EXT DRO
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg C	2	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	0.15.29.12 NMAC	)	10,000		10			Т					50								1,000	2,500
BH - 1 (4')	3/12/2024	4.0 - 4.5	864		< 0.050		<0.050	1	<0.050		<0.150		< 0.300		<10.0		40.3		<10.0		40.3	40.3
BH - 2 (4')	3/12/2024	4.0 - 4.5	96		<0.050		<0.050		< 0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-	-
BH - 3 (4.0')	3/8/2024	4.0 - 4.5	224		<0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		21.7		<10.0		21.7	21.7
BH - 4 (4.0')	3/8/2024	4.0 - 4.5	800		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-	-
BH - 5	-	-									Sampli	ing r	number skip	ped	in sampling	sche	eme					
BH - 6 (4')	3/12/2024	4.0 - 4.5	272		< 0.050		<0.050		< 0.050		<0.150		< 0.300		<10.0		115		58.5		115	173.5
BH - 7 (4')	3/12/2024	4.0 - 4.5	608		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		1	-
BH - 8 (4.0')	3/8/2024	4.0 - 4.5	496		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		1	-
BH - 9 (4.0')	3/8/2024	4.0 - 4.5	256		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		1	-
BH - 10	3/12/2024	4.0 - 4.5	320		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-	-
BH - 11	3/12/2024	4.0 - 4.5	1,760		<0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-	-
BH - 12	3/12/2024	4.0 - 4.5	432		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-	-
BH - 13	3/12/2024	4.0 - 4.5	976		< 0.050		<0.050		<0.050		< 0.150		< 0.300		<10.0		31.5		<10.0		31.5	31.5
BH - 14	3/12/2024	4.0 - 4.5	448		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		1	-
BH - 15 (4.0')	2/29/2024	4.0 - 4.5	128		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		1	-
BH - 16	3/12/2024	4.0 - 4.5	48		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		1	-
BH - 17	3/12/2024	4.0 - 4.5	160		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-	-
BH - 18 (4.0')	3/7/2024	4.0 - 4.5	32		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		1	-
BH - 19 (4.0')	3/7/2024	4.0 - 4.5	32		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		1	-
BH - 20 (4.0')	2/29/2024	4.0 - 4.5	480		< 0.050		<0.050		< 0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		ı	-
BH - 21	3/12/2024	4.0 - 4.5	400		< 0.050		<0.050		< 0.050		< 0.150		< 0.300		<10.0		21.7		<10.0		21.7	21.7
BH - 22 (4')	3/12/2024	4.0 - 4.5	368		< 0.050		<0.050		< 0.050		< 0.150		< 0.300		<10.0		26.3		<10.0		26.3	26.3
BH - 23 (4.0')	3/7/2024	4.0 - 4.5	<16.0		< 0.050		<0.050		< 0.050		< 0.150		< 0.300		<10.0		<10.0		<10.0		-	-
BH - 24 (4.0')	3/7/2024	4.0 - 4.5	304		< 0.050		<0.050		< 0.050		< 0.150		< 0.300		<10.0		<10.0		<10.0		-	-
BH - 25 (4')	3/4/2024	4.0 - 4.5	464		< 0.050		<0.050		< 0.050		< 0.150		< 0.300		<10.0		<10.0		<10.0		ı	-
BH - 26 (4.0')	2/29/2024	4.0 - 4.5	128		< 0.050		<0.050		< 0.050		< 0.150		< 0.300		<10.0		<10.0		<10.0		ı	-
BH - 27 (4.0')	3/7/2024	4.0 - 4.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH - 28 (4.0')	3/1/2024	4.0 - 4.5	64		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-	-
BH - 29 (4.0')	3/1/2024	4.0 - 4.5	32		<0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-	-
BH - 30 (4.0')	3/1/2024	4.0 - 4.5	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH - 31 (4')	3/4/2024	4.0 - 4.5	304		< 0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-	-
BH - 32 (4')	3/4/2024	4.0 - 4.5	16		< 0.050		< 0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-	-

### NOTES:

bgs: Below ground surface mg/kg: Milligrams per kilogram TPH: Total Petroleum Hydrocarbons ORO: Oil Range Organics

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

1: Method SM4500CI-B 2: Method 8021B

3: Method 8015M

Bold and highlighted values indicate exceedance of Table I 19.15.29.12 NMAC. Areas that were over excavated and resampled to achieve clean margins.

Maverick Permian, LLC March 22, 2024

# **ATTACHMENT 1 – SITE CHARACTERIZATION DATA**



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right

(R=POD has been replaced, O=orphaned,

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is

(quarters are smallest to

largest) (NAD83 UTM in meters) (In feet)

**POD** 

		Sub-		Q	Q	Q								W	/ater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Υ	Distance Dep	thWellDep	thWaterCo	lumn
<u>L 04631</u>		L	LE	2	1	1	04	18S	35E	643465	3628292*	511	140	60	80
<u>L 04586</u>		L	LE	3	3	4	33	17S	35E	644065	3628502*	518	125	50	75
L 04498		L	LE		3	1	04	18S	35E	643373	3627790*	566	128	70	58

Average Depth to Water:

60 feet

Minimum Depth:

50 feet

Maximum Depth:

70 feet

Record Count:

UTMNAD83 Radius Search (in meters):

Easting (X): 643893.93 Northing (Y): 3628012.93 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.

10/27/20 3:27 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD		0.0	_						Danilla	Danilla	<b>VA</b> /=4==
POD Number	Sub- Code basin	County	Q Q 64 16			Tws	Rng	х	Υ	-	•	Water Column
L 04206	L	LE	3	4	04	18S	35E	644194	3626992* 🌍	125	50	75
L 04498	L	LE	3	1	04	18S	35E	643373	3627790* 🌕	128	70	58
L 04631	L	LE	2 1	1	04	18S	35E	643465	3628292* 🌍	140	60	80

Average Depth to Water: 60 feet

Minimum Depth: 50 feet

Maximum Depth: 70 feet

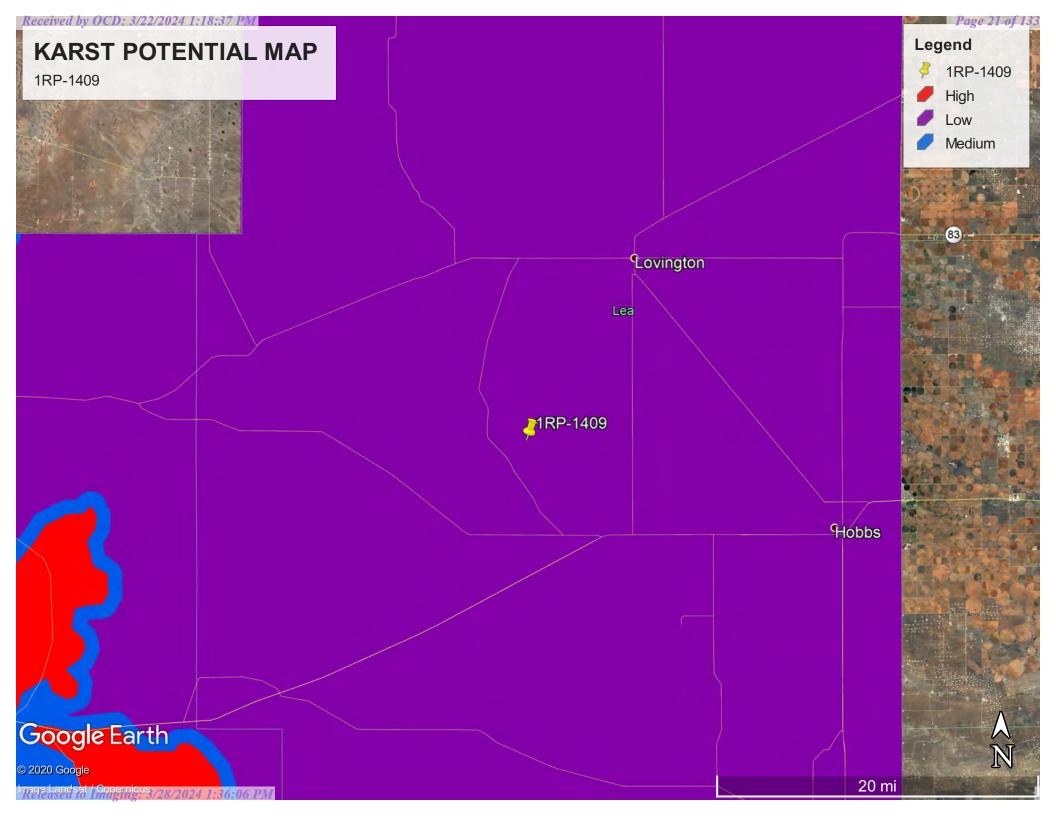
**Record Count:** 3

**PLSS Search:** 

Section(s): 4 Township: 18S Range: 35E

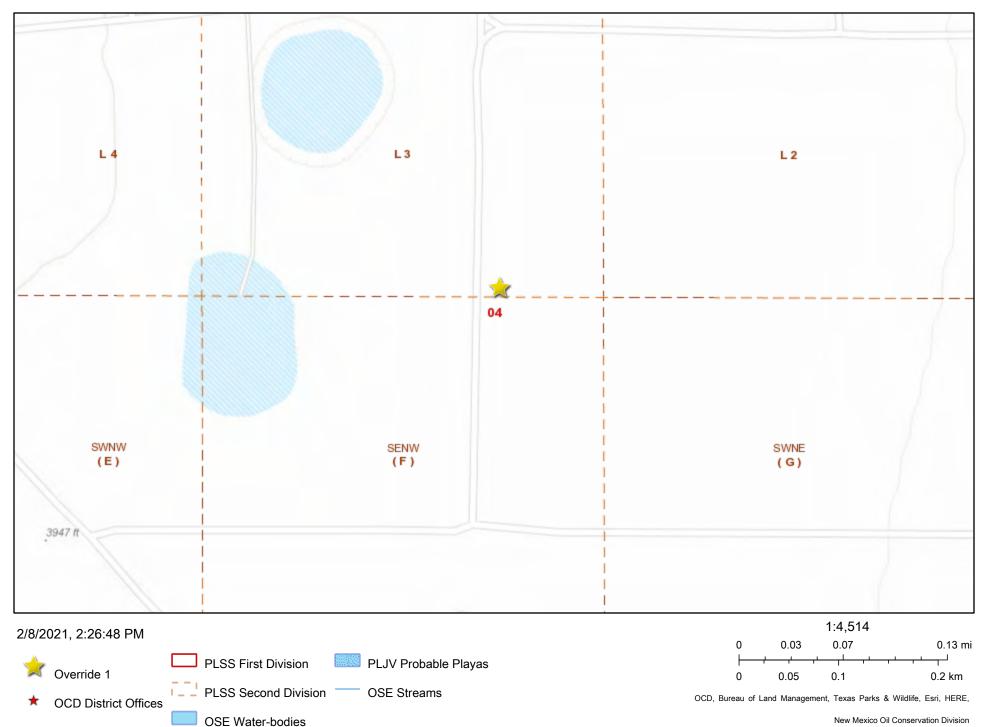
\*UTM location was derived from PLSS - see Help

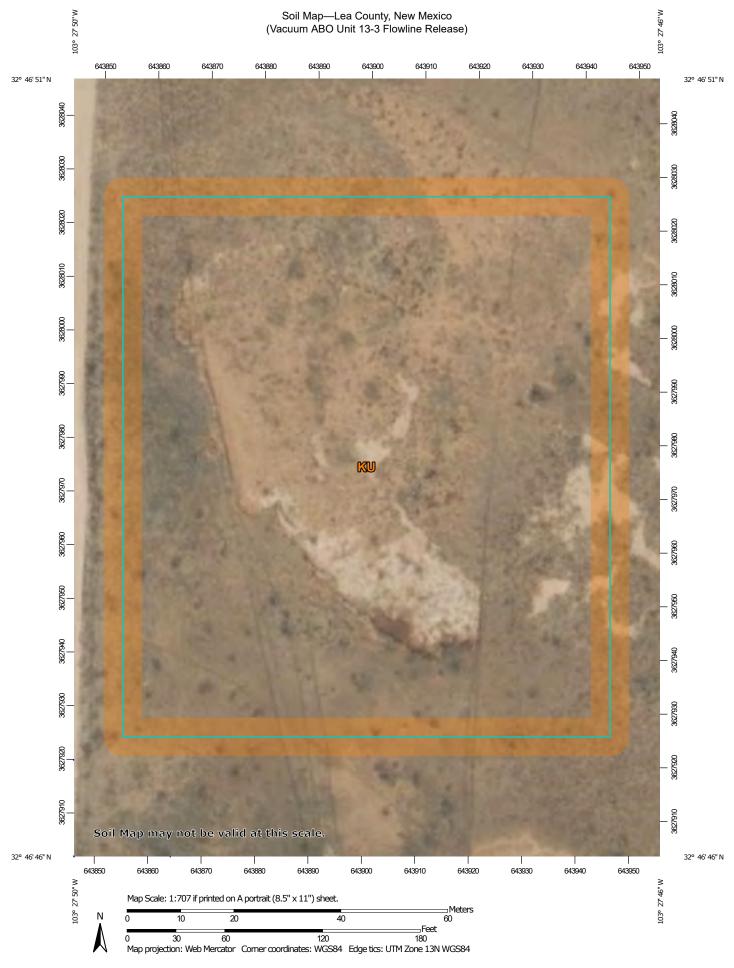
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



Released to Imaging: 3/28/2024 1:36:06 PM

# 1RP-1409





# Soil Map—Lea County, New Mexico (Vacuum ABO Unit 13-3 Flowline Release)

#### MAP LEGEND

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Water Features

Transportation

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Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

**US Routes** 

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

#### 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

#### 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.

Vacuum ABO Unit 13-3 Flowline Release

# **Map Unit Legend**

Map Un	it Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU		Kimbrough-Lea complex, dry, 0 to 3 percent slopes	2.3	100.0%
Totals for Are	a of Interest		2.3	100.0%

#### Lea County, New Mexico

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

#### **Map Unit Setting**

National map unit symbol: 2tw46 Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

#### **Map Unit Composition**

Kimbrough and similar soils: 45 percent Lea and similar soils: 25 percent Minor components: 30 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Kimbrough**

#### Setting

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary

rock

#### Typical profile

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

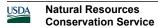
mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified



Vacuum ABO Unit 13-3 Flowline Release

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

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

Hydric soil rating: No

#### **Description of Lea**

#### Setting

Landform: Plains

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated

caliche of pliocene age

#### **Typical profile**

A - 0 to 10 inches: loam Bk - 10 to 18 inches: loam

Bkk - 18 to 26 inches: gravelly fine sandy loam Bkkm - 26 to 80 inches: cemented material

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: 22 to 30 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 90 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 3.0

Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

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

Hydric soil rating: No

#### **Minor Components**

#### Kenhill

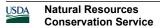
Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No



Vacuum ABO Unit 13-3 Flowline Release

#### **Douro**

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

#### **Spraberry**

Percent of map unit: 6 percent Landform: Playa rims, plains Down-slope shape: Convex, linear Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

### **Data Source Information**

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

Maverick Permian, LLC March 22, 2024

# ATTACHMENT 2 - CULTURAL RESOURCE SURVEY COVER SHEET

Report run on: Oct 10, 2023 03:00 PM

# **NMCRIS Investigation Abstract Form (NIAF)**

NMCRIS Activity No. 1539	HPD Log No(s).  Registration
Lead Agency:	NM State Land Office
Performing Agency: Activity ID: Performing Agency Report No:	SWCA Environmental Consultants 84275 23-668
Other Agencies:	
Report Recipient (Your Client):	Tetra Tech, Inc.
Activity Types:	Research Design Archaeological Survey/Inventory Architectural Survey/Inventory Test Excavation Monitoring Collections/Non-Field Study Compliance Decision Literature Review Overview Excavation Ethnographic Study Resource/Property Visit Historic Structures Report Other:
Total Survey Acreage: Total Tribal Acreage:	5.03 0.00

**Total Resources Visited:** 0

Maverick Permian, LLC March 22, 2024

# **ATTACHMENT 3 – LABORATORY ANALYTICAL DATA**



March 04, 2024

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: VACUUM ABO BATTERY 13-3

Enclosed are the results of analyses for samples received by the laboratory on 02/29/24 14:04.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/29/2024 Sampling Date: 02/29/2024

Reported: 03/04/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

#### Sample ID: BH - 15 (4.0') (H241018-01)

BTEX 8021B

	****91	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/01/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2024	ND	185	92.7	200	3.29	
DRO >C10-C28*	<10.0	10.0	03/01/2024	ND	198	99.0	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	03/01/2024	ND					
Surrogate: 1-Chlorooctane	65.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.1	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/29/2024 Sampling Date: 02/29/2024

Reported: 03/04/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

#### Sample ID: BH - 20 (4.0') (H241018-02)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/01/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2024	ND	185	92.7	200	3.29	
DRO >C10-C28*	<10.0	10.0	03/01/2024	ND	198	99.0	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	03/01/2024	ND					
Surrogate: 1-Chlorooctane	72.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

**TETRA TECH CHUCK TERHUNE** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/29/2024 Sampling Date: 02/29/2024

Reported: 03/04/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C-MD-03390 Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

#### Sample ID: BH - 26 (4.0') (H241018-03)

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	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/01/2024	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/01/2024	ND	185	92.7	200	3.29	
DRO >C10-C28*	<10.0	10.0	03/01/2024	ND	198	99.0	200	6.16	
EXT DRO >C28-C36	<10.0	10.0	03/01/2024	ND					
Surrogate: 1-Chlorooctane	72.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.3	% 49.1-14	8						

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Celey D. Keene



#### **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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Celeg D. Freene



March 06, 2024

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: VACUUM ABO BATTERY 13-3

Enclosed are the results of analyses for samples received by the laboratory on 03/01/24 12:00.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/01/2024 Sampling Date: 03/01/2024

Reported: 03/06/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Dionica Hinojos

A ..... I ..... . J D. ... 711

Project Location: MAVERICK NR - LEA CO NM

# Sample ID: BH - 28 (4.0') (H241033-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/04/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	204	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	191	95.5	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

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Celey D. Keine



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/01/2024 Sampling Date: 03/01/2024

Reported: 03/06/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Dionica Hinojos

Applyzod By: 14

Project Location: MAVERICK NR - LEA CO NM

# Sample ID: BH - 30 (4.0') (H241033-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/04/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	204	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	191	95.5	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.6	% 49.1-14	8						

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Celey D. Kreene



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/01/2024 Sampling Date: 03/01/2024

Reported: 03/06/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Dionica Hinojos

Applyzod By: 14

Project Location: MAVERICK NR - LEA CO NM

# Sample ID: BH - 29 (4.0') (H241033-03)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/04/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	204	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	191	95.5	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.8	% 49.1-14	8						

# Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

**TETRA TECH CHUCK TERHUNE** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/01/2024 Sampling Date: 03/01/2024

Reported: Sampling Type: Soil 03/06/2024

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Project Number: 212C-MD-03390 Sample Received By: Dionica Hinojos

Project Location: MAVERICK NR - LEA CO NM

# Sample ID: WS - 10 (H241033-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/04/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	204	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	191	95.5	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/01/2024 Sampling Date: 03/01/2024

Reported: 03/06/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

# Sample ID: WS - 11 (H241033-05)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/04/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	204	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	191	95.5	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/01/2024 Sampling Date: 03/01/2024

Reported: 03/06/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

# Sample ID: WS - 12 (H241033-06)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	204	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	191	95.5	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/01/2024 Sampling Date: 03/01/2024

Reported: 03/06/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

# Sample ID: WS - 13 (H241033-07)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	204	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	191	95.5	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	84.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.6	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/01/2024 Sampling Date: 03/01/2024

Reported: 03/06/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Dionica Hinojos

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

# Sample ID: WS - 14 (H241033-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/04/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	204	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	191	95.5	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.7	% 49.1-14	8						

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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: 03/01/2024 Sampling Date: 03/01/2024

Reported: 03/06/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Dionica Hinojos

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

#### Sample ID: WS - 15 (H241033-09)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/06/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/06/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/04/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	204	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	191	95.5	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.9	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/01/2024 Sampling Date: 03/01/2024

Reported: 03/06/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

# Sample ID: WS - 16 (H241033-10)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/04/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	204	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	191	95.5	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.4	% 49.1-14	8						

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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: 03/01/2024 Sampling Date: 03/01/2024

Reported: 03/06/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Dionica Hinojos

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

# Sample ID: WS - 17 (H241033-11)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/04/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	204	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	191	95.5	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.0	% 49.1-14	8						

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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: 03/01/2024 Sampling Date: 03/01/2024

Reported: 03/06/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Dionica Hinojos

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

# Sample ID: WS - 18 (H241033-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2024	ND	2.02	101	2.00	7.29	
Toluene*	<0.050	0.050	03/01/2024	ND	2.09	104	2.00	5.84	
Ethylbenzene*	<0.050	0.050	03/01/2024	ND	2.04	102	2.00	5.09	
Total Xylenes*	<0.150	0.150	03/01/2024	ND	6.19	103	6.00	4.73	
Total BTEX	<0.300	0.300	03/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/04/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	204	102	200	3.65	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	191	95.5	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	89.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

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Celey D. Keene



# **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



March 05, 2024

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: VACUUM ABO BATTERY 13-3

Enclosed are the results of analyses for samples received by the laboratory on 03/04/24 14:00.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/04/2024 Sampling Date: 03/04/2024

Reported: 03/05/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

# Sample ID: BH 24 (4') (H241063-01)

BTEX 8021B

BIEX GOEED	9/	119	Anaryzo	u 2 y : 3 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2024	ND	2.13	107	2.00	9.56	
Toluene*	<0.050	0.050	03/04/2024	ND	2.10	105	2.00	9.50	
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.04	102	2.00	9.44	
Total Xylenes*	<0.150	0.150	03/04/2024	ND	5.94	99.0	6.00	9.90	
Total BTEX	<0.300	0.300	03/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/05/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	241	121	200	0.0896	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	223	111	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	85.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/04/2024 Sampling Date: 03/04/2024

Reported: 03/05/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

# Sample ID: BH 25 (4') (H241063-02)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2024	ND	2.13	107	2.00	9.56	
Toluene*	<0.050	0.050	03/04/2024	ND	2.10	105	2.00	9.50	
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.04	102	2.00	9.44	
Total Xylenes*	<0.150	0.150	03/04/2024	ND	5.94	99.0	6.00	9.90	
Total BTEX	<0.300	0.300	03/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/05/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	241	121	200	0.0896	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	223	111	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.0	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/04/2024 Sampling Date: 03/04/2024

Reported: 03/05/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

# Sample ID: BH 31 (4') (H241063-03)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2024	ND	1.94	97.0	2.00	5.22	
Toluene*	<0.050	0.050	03/04/2024	ND	2.13	107	2.00	10.5	
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.22	111	2.00	9.81	
Total Xylenes*	<0.150	0.150	03/04/2024	ND	6.59	110	6.00	9.58	
Total BTEX	<0.300	0.300	03/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/05/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2024	ND	241	121	200	0.0896	
DRO >C10-C28*	<10.0	10.0	03/04/2024	ND	223	111	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	03/04/2024	ND					
Surrogate: 1-Chlorooctane	77.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.7	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/04/2024 Sampling Date: 03/04/2024

Reported: 03/05/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

# Sample ID: BH 32 (4') (H241063-04)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2024	ND	1.94	97.0	2.00	5.22	
Toluene*	<0.050	0.050	03/04/2024	ND	2.13	107	2.00	10.5	
Ethylbenzene*	<0.050	0.050	03/04/2024	ND	2.22	111	2.00	9.81	
Total Xylenes*	<0.150	0.150	03/04/2024	ND	6.59	110	6.00	9.58	
Total BTEX	<0.300	0.300	03/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/05/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	241	121	200	0.0896	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	1.43	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					
Surrogate: 1-Chlorooctane	77.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C Corrected Temp. °C

00

Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard **Hush** 

Thermometer ID #140 Correction Factor 0°C

34MRS

Cool Intact

Corrected Temp. °C

Bacteria (only) Sample Condition Cool Intact Observed Temp.

ô

REMARKS:

Time:

Received By:

Received

All Results are emailed. Please provide Email address:

/erbal Result:

☐ Yes

□ No

Add'l Phone #:

FORM-006 R 3.4 07/11/23

Relinquished By:

service. In no event shall Cardinal

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(EZE) 202-2226 EAY (575) 393-24/6	-24/6	
d.	BILL TO	ANALYSIS REQUEST
Project Manager: Charles Church	P.O. #:	
0.000	company: Maulinos	
City: State:	zip: Attn: Bryce Wugoner	
Phone #: Fax #:	Address:	
Project #: AIAC-MD-03,40 Project Owner:	ner: city: Hobby	
Project Name: VALIMAN ABO PAtt 13-3	State: Zip:	
Project Location:   P. d	Phone #:	
-	Fax #:	
٦	MATRIX PRESERV. SAMPLING	33
Lab I.D. Sample I.D.	AB OR (C)OMP. NTAINERS UNDWATER TEWATER DGE ER: D/BASE: / COOL ER:	Chloride BTEX TPH
truint3	# CGR WASO OIL SL OT ACC	(
(II) 11 (II)		-
20 20 (H.)	NX X	× × ×
_	× × 3/4	-
0 UT 0 10	7 × 3 4	* X

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com Cool Intact
A Yes
No No

Page 7 of 7



March 08, 2024

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: VACUUM ABO BATTERY 13-3

Enclosed are the results of analyses for samples received by the laboratory on 03/07/24 13:52.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

**TETRA TECH CHUCK TERHUNE** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/07/2024 Sampling Date: 03/07/2024

Reported: 03/08/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

# Sample ID: BH - 18 (4.0') (H241168-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2024	ND	2.16	108	2.00	1.58	
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	1.55	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.96	99.3	6.00	1.48	
Total BTEX	<0.300	0.300	03/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	186	93.1	200	2.31	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					
Surrogate: 1-Chlorooctane	92.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/07/2024 Sampling Date: 03/07/2024

Reported: 03/08/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

# Sample ID: BH - 19 (4.0') (H241168-02)

BTEX 8021B

	9/	9	71.14.1, = 0						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2024	ND	2.16	108	2.00	1.58	
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	1.55	
Ethylbenzene*	< 0.050	0.050	03/07/2024	ND	2.05	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.96	99.3	6.00	1.48	
Total BTEX	<0.300	0.300	03/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	186	93.1	200	2.31	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					
Surrogate: 1-Chlorooctane	84.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/07/2024 Sampling Date: 03/07/2024

Reported: 03/08/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MAVERICK NR - LEA CO NM

# Sample ID: BH - 23 (4.0') (H241168-03)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2024	ND	2.16	108	2.00	1.58	
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	1.55	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.96	99.3	6.00	1.48	
Total BTEX	<0.300	0.300	03/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
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	03/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	186	93.1	200	2.31	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	196	98.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/07/2024 Sampling Date: 03/07/2024

Reported: 03/08/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

# Sample ID: BH - 24 (4.0') (H241168-04)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2024	ND	2.16	108	2.00	1.58	
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	1.55	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.96	99.3	6.00	1.48	
Total BTEX	<0.300	0.300	03/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/08/2024	ND	186	93.1	200	2.31	
DRO >C10-C28*	<10.0	10.0	03/08/2024	ND	196	98.1	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/08/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

**TETRA TECH CHUCK TERHUNE** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/07/2024 Sampling Date: 03/07/2024

Reported: 03/08/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

#### Sample ID: BH - 27 (4.0') (H241168-05)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2024	ND	1.93	96.4	2.00	1.53	
Toluene*	<0.050	0.050	03/07/2024	ND	2.01	101	2.00	0.946	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.96	99.3	6.00	0.533	
Total BTEX	<0.300	0.300	03/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	192	95.9	200	5.61	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	201	100	200	5.03	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					
Surrogate: 1-Chlorooctane	78.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.5	% 49.1-14	8						

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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: 03/07/2024 Sampling Date: 03/07/2024

Reported: 03/08/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

# Sample ID: SW - 19 (H241168-06)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2024	ND	1.93	96.4	2.00	1.53	
Toluene*	<0.050	0.050	03/07/2024	ND	2.01	101	2.00	0.946	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.96	99.3	6.00	0.533	
Total BTEX	<0.300	0.300	03/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/08/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	192	95.9	200	5.61	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	201	100	200	5.03	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.7	% 49.1-14	8						

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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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Celey D. Keene

Hold



March 12, 2024

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: VACUUM ABO BATTERY 13-3

Enclosed are the results of analyses for samples received by the laboratory on 03/11/24 12:21.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

 Received:
 03/11/2024
 Sampling Date:
 03/08/2024

 Reported:
 03/12/2024
 Sampling Type:
 Solid

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

A ..... I ..... . J D. ... 711

Project Location: MAVERICK NR - LEA CO NM

# Sample ID: WS - 5 (H241213-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.09	105	2.00	2.34	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	2.45	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.18	103	6.00	2.35	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/12/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	216	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	205	103	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.6	% 49.1-14	8						

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Celey D. Keine



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

 Received:
 03/11/2024
 Sampling Date:
 03/08/2024

 Reported:
 03/12/2024
 Sampling Type:
 Solid

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

# Sample ID: WS - 6 (H241213-02)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.09	105	2.00	2.34	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	2.45	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.18	103	6.00	2.35	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 % 71.5-13		4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/12/2024	ND	448	112	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	03/11/2024	ND	216	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	205	103	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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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: 03/11/2024 Sampling Date: 03/08/2024
Reported: 03/12/2024 Sampling Type: Solid

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

### Sample ID: WS - 7 (H241213-03)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.09	105	2.00	2.34	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	2.45	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.18	103	6.00	2.35	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/12/2024	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	216	108	200	1.19	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	205	103	200	3.39	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/11/2024 Sampling Date: 03/08/2024
Reported: 03/12/2024 Sampling Type: Solid

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

### Sample ID: WS - 8 (H241213-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.09	105	2.00	2.34	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	2.45	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.18	103	6.00	2.35	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/12/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	216	108	200	1.65	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	226	113	200	0.598	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

 Received:
 03/11/2024
 Sampling Date:
 03/08/2024

 Reported:
 03/12/2024
 Sampling Type:
 Solid

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

### Sample ID: WS - 9 (H241213-05)

RTFY 8021R

B1EX 8021B	mg,	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.09	105	2.00	2.34	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	2.45	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.18	103	6.00	2.35	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/12/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	216	108	200	1.65	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	226	113	200	0.598	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	98.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

# Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/11/2024 Sampling Date: 03/08/2024
Reported: 03/12/2024 Sampling Type: Solid

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: BH - 3 (4.0') (H241213-06)

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	03/11/2024	ND	2.09	105	2.00	2.34	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	2.45	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.18	103	6.00	2.35	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/12/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	216	108	200	1.65	
DRO >C10-C28*	21.7	10.0	03/11/2024	ND	226	113	200	0.598	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	98.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celey D. Kreine



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/11/2024 Sampling Date: 03/08/2024
Reported: 03/12/2024 Sampling Type: Solid

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: BH - 4 (4.0') (H241213-07)

RTFY 8021R

B1EX 8021B	mg/	9	Allalyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.09	105	2.00	2.34	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	2.45	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.18	103	6.00	2.35	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	03/12/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	216	108	200	1.65	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	226	113	200	0.598	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kune



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

 Received:
 03/11/2024
 Sampling Date:
 03/08/2024

 Reported:
 03/12/2024
 Sampling Type:
 Solid

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: BH - 8 (4.0') (H241213-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.09	105	2.00	2.34	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	2.45	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.18	103	6.00	2.35	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/12/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	216	108	200	1.65	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	226	113	200	0.598	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/11/2024 Sampling Date: 03/08/2024
Reported: 03/12/2024 Sampling Type: Solid

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: BH - 9 (4.0') (H241213-09)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2024	ND	2.09	105	2.00	2.34	
Toluene*	<0.050	0.050	03/11/2024	ND	2.08	104	2.00	2.45	
Ethylbenzene*	<0.050	0.050	03/11/2024	ND	2.04	102	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/11/2024	ND	6.18	103	6.00	2.35	
Total BTEX	<0.300	0.300	03/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/12/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/11/2024	ND	216	108	200	1.65	
DRO >C10-C28*	<10.0	10.0	03/11/2024	ND	226	113	200	0.598	
EXT DRO >C28-C36	<10.0	10.0	03/11/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keine



### **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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Celeg D. Keene



March 13, 2024

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: VACUUM ABO BATTERY 13-3

Enclosed are the results of analyses for samples received by the laboratory on 03/12/24 14:22.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: WS - 20 (H241249-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Kreene



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

### Sample ID: WS - 21 (H241249-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.2	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

**TETRA TECH CHUCK TERHUNE** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/12/2024 Sampling Date: 03/12/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: BH-22 (4') (H241249-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	211	105	200	0.355	
DRO >C10-C28*	26.3	10.0	03/13/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	102 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

### Sample ID: WS - 23 (H241249-04)

RTFY 8021R

BIEX 8021B	mg,	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keine



# Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

### Sample ID: WS - 24 (H241249-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.7	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

**TETRA TECH CHUCK TERHUNE** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/12/2024 Sampling Date: 03/12/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: WS - 25 (H241249-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	2.14	107	2.00	0.920	
Toluene*	<0.050	0.050	03/12/2024	ND	2.13	107	2.00	0.974	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	2.07	104	2.00	1.00	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.29	105	6.00	1.12	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	211	105	200	0.355	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	210	105	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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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: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: BH - 1 (4') (H241249-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	<0.050	0.050	03/12/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	40.3	10.0	03/12/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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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: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: BH - 2 (4') (H241249-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	<0.050	0.050	03/12/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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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: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

# Sample ID: BH - 6 (4') (H241249-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	<0.050	0.050	03/12/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	< 0.050	0.050	03/12/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	115	10.0	03/12/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	58.5	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.7	% 49.1-14	18						

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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: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: BH - 7 (4') (H241249-10)

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	03/12/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	<0.050	0.050	03/12/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	<0.050	0.050	03/12/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	03/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	<10.0	10.0	03/12/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	<10.0	10.0	03/12/2024	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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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: 03/12/2024 Sampling Date: 03/12/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C-MD-03390 Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: BH - 10 (H241249-11)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	<0.050	0.050	03/12/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	< 0.050	0.050	03/12/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/12/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/12/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/13/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	95.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.4 9	% 49.1-14	8						

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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: 03/12/2024 Sampling Date: 03/12/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-03390 Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: BH - 11 (H241249-12)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	< 0.050	0.050	03/13/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	03/13/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	101 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

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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: 03/12/2024 Sampling Date: 03/12/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: BH - 12 (H241249-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	<0.050	0.050	03/13/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/13/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

### Sample ID: BH - 13 (H241249-14)

RTFY 8021R

B1EX 8021B	mg,	rkg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	<0.050	0.050	03/13/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	03/13/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	31.5	10.0	03/13/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

### Sample ID: BH - 14 (H241249-15)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	<0.050	0.050	03/13/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/13/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	92.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

### Sample ID: BH - 16 (H241249-16)

RTFY 8021R

B1EX 8021B	mg/	<u> </u>	Alluly20	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	<0.050	0.050	03/13/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.8	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

### Sample ID: BH - 17 (H241249-17)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	<0.050	0.050	03/13/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/13/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.5	% 49.1-14	8						

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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: 03/12/2024 Sampling Date: 03/12/2024

Reported: 03/13/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK NR - LEA CO NM

ma/ka

### Sample ID: BH - 21 (H241249-18)

RTFY 8021R

B1EX 8021B	mg,	r Kg	Апануге	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	<0.050	0.050	03/13/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/13/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	21.7	10.0	03/13/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.1	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

**TETRA TECH CHUCK TERHUNE** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/12/2024 Sampling Date: 03/12/2024

Reported: Sampling Type: Soil 03/13/2024

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: WS - 22 (H241249-19)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	1.93	96.6	2.00	5.43	
Toluene*	<0.050	0.050	03/13/2024	ND	2.01	100	2.00	4.42	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.97	98.7	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.00	99.9	6.00	4.41	
Total BTEX	<0.300	0.300	03/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2024	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	03/13/2024	ND	180	90.1	200	6.09	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	193	96.3	200	6.99	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

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Celey D. Keene



### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(5/5) 393-2326	5/5) 393-2320 FAA (3/3) 393-44/0	2011	ANALYSIS REQUEST	UEST
Company Name: The Tech		BILL 10		
Project Manager: Chuck Terhill	rhuse	P.O. #:	) B	
Address:		Company: Maverice	66	
City:	State: Zip:	Attn: Bryce W-	80	
Phone #:	Fax#:	Address:		
Project #: 2120-MD-0330		City:		
Project Name: Vacuum Abo		State: Zip:	1	
Project Location:		Phone #:	45 M	
Sampler Name:		Fax #:	015	
Sampler Name:	MATRIX	PRESERV SAMPLING		
FOR LAB USE ONLY	S ER		8	
Lab I.D. Sample I.D.	G)RAB OR (C)O CONTAINERS BROUNDWATE VASTEWATER	OTHER: ACID/BASE: CE / COOL OTHER:	Chlori TPH BTE,	
Harlar / WS-20	- # V . × \$	× 1	- x - x - x - x - x - x - x - x - x - x	
32-54 32-54	BHZZ (")X			
16-5m 5 103-62 h 03-00	Od ceci)			
1 ± 50 0				
17 5- HG 6	2	< -	4	
PLEASE NOTE: Liability and Damages. Cardina's liability analyses. All claims including those for negligence and an	and cleafs exclusive remady for any claim arising whether other cause whatsoever shall be deemed waived unless to other cause whatsoever including without limitation business.	based in contract or tort, shall be landled to the amount paid by nade in writing and received by Cardinal within 30 days effor or eas interruptions, loss of use, or loss of profits incurred by offer	nt paid by the client for the ys after completion of the applicable of by client, its subsidiaries.	
affiliates or successors, wang out of or related to the performan Relinquished By:	man o	m is basedm any of the above stated reason	acons or cherwise.  Verbal Result:   Yes   No   Add'l Phone #:  Verbal Results are emailed. Please provide Email address:	
Auski		Marke	REMARKS: 10 TO CONNECTED. Ch 3/13/14	14
The second designation of the			,	
Delivered By: (Circle One)	Temp. °C 2.8	CHECKED BY:	Standard	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C Yes II Yes	Jo	Thermometer ID #140 Correction Factor 0°C  Correction Factor 0°C  Correction Factor 0°C  Correction Factor 0°C	Corrected Temp. °C

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

A Labor No Is: Lucumy analysis of the American American Including those for negligence and any officerois in no event shall Custinal he liable for incidental or constitution or successor. —hing out of or related to the performant Relinquished Sy:  Relinquished By:  Delivered By: [Circle One]  Sampler - UPS - Bus - Other:	PLEASE NOTE: Liability and analyses. All claims including I service. In no event shall Card	2		16	12/2	102	17 6	1401401	i/mini/a	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #: 212C-MD-03390	Phone #:	City:	Address:	Project Manager:	Company Name:				
us - Other:	cle One)	A)100	out of or related to the perform	bamages. Cardinal's liability a those for negligence and any mai be liable for incidental or	ws-aa	9	31.16	3H-14	BH-12	21-15 31-15			Sample I.D.				Vacuum Abo 13-3	MD-03390			3	Chuck Terhune	icha Te	575) 393-2326
Corrected Temp. °C	Observed Temp. °C 2.8	Date:	Date: 3/12/	nd client's exclusive remady to other cause whatsoever shall t consequental damages, includ	tor at	,							i.D.				00 13-3	Project Owner:	Fax #:	State:		Crhune	•	(575) 393-2326 FAX (575) 393-2476
-		Received By:	1	set's exclusive remedy for any claim arising whether based in contract or fort, shall cause whatscever shall be deemed watved unless nade in writing and received t quental damages, including without limitation, business interruptions, loss of use quental damages, including without installation to welfare such claim; is based			·			- >	- #	ROUN WASTE BOIL DIL	OR (C)O AINERS IDWATER WATER		VIGTOR			5		Zip:				476
No.	ç	Kom	Miles See	PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remady for any claim arising whether based in contact or tool, shall be larisled to the amount paid by the creen for real parts. In case it is not completely cardinal within 30 days after completely cardinal within 30 days after completely cardinal values. All claims including those for registrence and any other cause whatsoever shall be deemed wawed unless made in writing and received by Cardinal within 30 days after completely of the applicable cardinal including the shall be shall be accessed to the profit of the shall be claim. It is substained, service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substaines, service.		3-12-2				1 2112	4 1	OTHER OTHER CE / CO OTHER	ASE:		Fax #:	Phone #:	State: Zip:	City:	Address: Bryce W	Attn: Charle Deck	Company: Maverice	P.O. #:	BILL TO	
Thermometer ID #140 Correction Factor 0°C	Turnaround Time:	5	Verbal Result: ☐ Yes All Results are emailed. F	and by the clean for the ter completion of the applicable riclent, its subsidiaries, reasons or otherwise.		2	4			-	*		hlor PH	<	SAMPLING	L	15	का	ľ	\$0	6			
SHIPS NO NO NO	Rush Cool Intact	Sed Sed	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:								*	B	TEX		50	2	E	-	\$2	6		3	ANALYSIS KE	
lo Corrected Temp. °C	Cool Intact Observed Temp. °C	2 3-12-24	•																				KEQUEU	NIEST



March 14, 2024

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: VACUUM ABO BATTERY 13-3

Enclosed are the results of analyses for samples received by the laboratory on 03/13/24 12:55.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/13/2024 Sampling Date: 03/13/2024

Reported: 03/14/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

A ..... I ..... . J D. ... 711

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: WS - 1 (H241283-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	2.29	115	2.00	0.318	
Toluene*	<0.050	0.050	03/13/2024	ND	2.25	113	2.00	0.0420	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	2.21	111	2.00	0.131	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.46	108	6.00	0.227	
Total BTEX	<0.300	0.300	03/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/14/2024	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	225	112	200	1.23	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	221	110	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

**TETRA TECH CHUCK TERHUNE** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/13/2024 Sampling Date: 03/13/2024

Reported: Sampling Type: Soil 03/14/2024

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Project Location: MAVERICK NR - LEA CO NM

### Sample ID: WS - 2 (H241283-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	2.29	115	2.00	0.318	
Toluene*	<0.050	0.050	03/13/2024	ND	2.25	113	2.00	0.0420	
Ethylbenzene*	< 0.050	0.050	03/13/2024	ND	2.21	111	2.00	0.131	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.46	108	6.00	0.227	
Total BTEX	<0.300	0.300	03/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/14/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	225	112	200	1.23	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	221	110	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	124 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142 %	6 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/13/2024 Sampling Date: 03/13/2024

Reported: 03/14/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

### Sample ID: WS - 3 (H241283-03)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	2.29	115	2.00	0.318	
Toluene*	<0.050	0.050	03/13/2024	ND	2.25	113	2.00	0.0420	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	2.21	111	2.00	0.131	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.46	108	6.00	0.227	
Total BTEX	<0.300	0.300	03/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/14/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2024	ND	225	112	200	1.23	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	221	110	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celey D. Keine



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: 03/13/2024 Sampling Date: 03/13/2024

Reported: 03/14/2024 Sampling Type: Soil

Project Name: VACUUM ABO BATTERY 13-3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-03390 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK NR - LEA CO NM

mg/kg

#### Sample ID: WS - 4 (H241283-04)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	2.29	115	2.00	0.318	
Toluene*	<0.050	0.050	03/13/2024	ND	2.25	113	2.00	0.0420	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	2.21	111	2.00	0.131	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.46	108	6.00	0.227	
Total BTEX	<0.300	0.300	03/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/14/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2024	ND	225	112	200	1.23	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	221	110	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

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Celeg & Kreene

Celey D. Keene, Lab Director/Quality Manager



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

#### **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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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

Site Remediation Report and Closure Request Vacuum ABO 13-3 Flowline Release Incident ID# nPAC0716533924

Maverick Permian, LLC March 22, 2024

# **ATTACHMENT 4 – PHOTOGRAPHIC DOCUMENTATION**

② 10°N (T) LAT: 32.780212 LON: -103.463309 ±3m ▲ 1198m

NW

330

300









Site Remediation Tetra Tech Maverick- Vacuum ABO 13-3 Mar 01 2024, 10:42:06 MST.















Site Remediation Report and Closure Request Vacuum ABO 13-3 Flowline Release Incident ID# nPAC0716533924

Maverick Permian, LLC March 22, 2024

# **ATTACHMENT 5 – SEED MIXTURE DETAILS**

## **NMSLO Seed Mix**

# Loamy (L)

#### LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	$\mathbf{F}$
Sand dropseed	VNS, Southern	2.0	$\mathbf{S}$
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
Forbs:			A
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Shrubs:		8	B
Fourwing saltbush	Marana, Santa Rita	1.0	DB
Common winterfat	VNS, Southern	0.5	F
	Total PLS/acr	e 18.0	818

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 <a href="http://plants.usda.gov">http://plants.usda.gov</a>.



## **SLO Seed Mix**

## **SM Series**

### 3 REVEGETATION PLANS & SEEDING

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico

REVEGTATION PLANS	CODE	SOIL TEXTURES
Clay	C	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
Loam	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
Sandy Loam	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
Gypsum	LG	
Shallow	SH	Rocky Loam, Cobbly Loam
Course	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
Sandy	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
Blow Sand	BS	Fine Sand, Sand, Coarse Sand
Mountain Meadow	MM	Clay, Loam
Mountain Upland	MU	Clay Loam, Loam



<u>District I</u> 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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 325400

#### **QUESTIONS**

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	325400
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nPAC0716533924	
Incident Name	NPAC0716533924 VACUUM ABO UNIT #003 @ 30-025-03045	
Incident Type	Oil Release	
Incident Status	Remediation Closure Report Received	
Incident Well	[30-025-03045] VACUUM ABO UNIT #003	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	VACUUM ABO UNIT #003	
Date Release Discovered	06/01/2007	
Surface Owner	State	

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications f	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Crude Oil   Released: 7 BBL   Recovered: 2 BBL   Lost: 5 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 33 BBL   Recovered: 10 BBL   Lost: 23 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)	Not answered.

**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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 325400

#### **QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	325400
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Nature and Volume of Release (continued)		
No, according to supplied volumes this does not appear to be a "gas only" report.		
Yes		
From paragraph A. "Major release" determine using:  (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.		

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 Email: chuck.terhune@tetratech.com Date: 03/22/2024
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District I
1625 N. French Dr., Hobbs, NM 88240
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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 325400

#### **QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	325400
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This in	formation must be provided to ti	he appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this subm	nission	Yes
Attach a comprehensive report demonstrating the lateral and vertic	al 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 be	een fully delineated	Yes
Was this release entirely contained within a lined conta	inment area	No
Soil Contamination Sampling: (Provide the highest observed)	vable value for each, in mill	igrams per kilograms.)
Chloride (EPA 300.0 or SM4500	CIB)	605
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8	015M)	157.4
GRO+DRO (EPA SW-846 Method	8015M)	38.3
BTEX (EPA SW-846 Method	8021B or 8260B)	0.1
Benzene (EPA SW-846 Method	l 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterize which includes the anticipated timelines for beginning and complete		efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	Э	02/26/2024
On what date will (or did) the final sampling or liner insp	pection occur	03/13/2024
On what date will (or was) the remediation complete(d)		03/15/2024
What is the estimated surface area (in square feet) that	will be reclaimed	14800
What is the estimated volume (in cubic yards) that will be	oe reclaimed	2562
What is the estimated surface area (in square feet) that	will be remediated	14800
What is the estimated volume (in cubic yards) that will be	pe remediated	2562
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	e to be minimally adjusted in ac	cordance 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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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 325400

**QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	325400
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and 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.

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

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

I hereby agree and sign off to the above statement

Name: Chuck Terhune

Email: chuck.terhune@tetratech.com

Date: 03/22/2024

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

QUESTIONS, Page 5

Action 325400

#### **QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	325400
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II** 

Bistrict III

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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 6

Action 325400

**QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	325400
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	322297
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/13/2024
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	3000

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	14800	
What was the total volume (cubic yards) remediated	2562	
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	14800	
What was the total volume (in cubic yards) reclaimed	2562	
Summarize any additional remediation activities not included by answers (above)	None	

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

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

Name: Chuck Terhune
Email: chuck.terhune@tetratech.com
Date: 03/22/2024

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QUESTIONS, Page 7

Action 325400

**QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	325400
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

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CONDITIONS

Action 325400

#### **CONDITIONS**

Operator:	OGRID:
Maverick Permian LLC	331199
, and the second	Action Number:
Houston, TX 77002	325400
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation approved.	3/28/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	3/28/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the 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; and a revegetation plan.	3/28/2024