

June 14, 2024

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

Re: Remediation Report and Closure Request

Maverick Permian, LLC

Vacuum Abo Battery #4 Trunkline

Unit Letter D, Section 35, Township 17 South, Range 35 East

Lea County, New Mexico

Incident IDs# nJXK1616547061 and nRM2003534693

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by ConocoPhillips (COP) to evaluate and assess a release that occurred from a trunkline located at the Vacuum Abo Battery #4, in Lea County, New Mexico (Site) on June 11, 2016. Subsequently, COP contracted COP to evaluate and assess a subsequent release at the same location that occurred on December 30, 2019. The initial C-141 for the 2016 release (nJXK1616547061) inaccurately states the release occurred in the Public Land System Survey (PLSS) Unit Letter I, Section 27, Township 17 South, and Range 35 East. This location corresponds to the well listed on the C-141, which is the Vacuum Abo Unit #004 well (API 30-025-08526). According to information provided by COP, the release occurred in the vicinity of the Vacuum Abo Battery #4, located approximately 2 miles southeast of the well location provided in the C-141, in the PLSS Unit Letter D, Section 35, Township 17 South, Range 35 East. The approximate location of the 2016 release point (nJXK1616547061) is within the caliche pad located south of the Vacuum Abo Battery #4 at 32.798140°, -103.434660°. The 2019 release (nRM2003534693) also occurred in the vicinity of the Vacuum Abo Battery #4 at coordinates 32.798410°, -103.434713° The location of the releases is 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 which covers both releases.

# **BACKGROUND**

# nJXK1616547061

According to the State of New Mexico C-141 Initial Report, the release was discovered on June 11, 2016, occurring as the result of a buried trunkline on the south side of County Road (CR) 50. The release consisted of 38 barrels (bbls) of produced water, of which 25 bbls were recovered with a vacuum truck. Immediate action was to shut in all manual header valves. The NMOCD received notification of the release on June 13, 2016, and the release was subsequently assigned Incident ID nJXK1616547061. The approximate release extent is presented in **Figure 3A**.

# nRM2003534693

According to the State of New Mexico C-141 Initial Report, on December 30, 2019, a release occurred from a trunkline at the Vacuum Abo Battery #4. The release consisted of approximately 0.713 barrels (bbls) of oil and 27.791 bbls of produced water, of which 1 bbl of produced water was recovered. The release traveled up from the subsurface trunk line, off of the Vacuum Abo Battery #4 pad north into the ditch on the southern side of CR 50, then to the east along the ditch until it reached a point where it pooled and crossed the highway. The approximate release extent is presented in **Figure 3B**.

Tetra Tech, Inc.

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ConocoPhillips gave immediate notice following the discovery of the release to the New Mexico Department of Transportation County Road Department and Maintenance Department, as well as the NMOCD, and the release was subsequently assigned the release Incident ID nRM2003534693.

# SITE CHARACTERIZATION

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

# Receptors

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). According to the NMOCD Oil and Gas Map online, the Site is in an area of low karst potential.

# **Depth to Groundwater**

According to the New Mexico Office of State Engineer's (NMOSE) Reporting System, there are two (2) water wells within ½ mile of the Site with an average depth to groundwater of 67 feet below ground surface (bgs), however, the available groundwater depths are greater than 25 years old. The United States Geological Survey (USGS) has Active Monitoring Groundwater Well 324745103251501 listed as 0.44 miles east-southeast of the site with a recorded depth to water of 55.49 feet dated water January 6, 2016.

# Soils

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

### REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), Total Petroleum Hydrocarbons (TPH), and chloride in soil.

Based on the depth to water and distances to potential receptors, 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

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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

# NJXK1616547061 - 2016 REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

Given that the footprint of the 2016 release (nJXK1616547061) closely matched the footprint of the previous release (nTO1518757703) at the site that occurred on July 6, 2015 (nTO1518757703 deferral Approved January 4, 2023), the remediation activities intended for 2015 release were merged to encompass both the 2015 release (nTO1518757703) and the 2016 release (nJXK1616547061) footprints. According to available information, further assessment work was not conducted following the 2016 release before remediation activities commenced at the Site in accordance with the approved Corrective Action Plan (CAP) for the 2015 release (nJXK1616547061). Based on the May 2016 soil assessment results for the 2015 release (nTO1518757703) and the approved CAP, excavation activities commenced in July 2016. COP scraped the release extent on the lease pad to a depth of 0.5 feet below ground surface (bgs). Accessible portions of the release area were excavated down to 2.5 feet bgs and 3.5 feet bgs. In the interest of safety, COP kept the excavation more than 5 feet from buried lines. A map created by Basin that shows the 2015 and 2016 release extents (identified as "AD #1 Stain" and "AD #2 Stain," respectively) along with the excavation areas is available from the NMOCD Permitting portal under Incidents nTO1518757703 and nJXK1616547061.

Four (4) confirmation samples were collected from the floor of the excavated areas and submitted to Cardinal Laboratories for analysis of TPH and chloride. The laboratory analytical results for chloride reported concentrations greater than the Reclamation Requirement at point 3 at 2.5 feet bgs and at point 4 at 0.5 feet bgs. The laboratory analytical report was previously submitted to the NMOCD under incident nTO1518757703. The excavated areas were backfilled with clean material upon receipt of confirmation sampling analytical results. The impacts at these locations were deferred under incident nTO1518757703, approved on January 4, 2023. The confirmation sampling summary tables and laboratory analytical packages are available from the NMOCD Permitting portal under Incidents nTO1518757703 and nJXK1616547061.

# NRM2003534693 - 2019 INITIAL RESPONSE ACTIVITIES

# **Initial Response and Remediation**

Per 19.15.29.8(B)(4) NMAC, the responsible party may commence remediation immediately after the discovery of a release. According to COP, the initial response to the December 2019 release (nRM2003534693) by COP was to remove the overburden above the trunk line and hand excavate saturated soils and caliche with shovel crews to a depth of 10-12 feet bgs. The excavation was performed by hand because COP policy prohibits the use of mechanized excavation equipment in the immediate vicinity of lines. Visually impacted areas in the bar ditch adjacent to the road were scraped and then backfilled with clean material. COP contractors transported and

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disposed of the contaminated soil at an NMOCD-approved facility. Photographic documentation of the initial response was previously submitted to the NMOCD and is available from the NMOCD Permitting portal under incident nRM2003534693.

# **2020 SITE ASSESSMENT**

# 2020 Soil Assessment Sampling

In October 2020 Tetra Tech mobilized to the Site on behalf of COP to conduct additional assessment activities to complete horizontal and vertical delineation of the documented releases at the Site. As there are multiple releases associated with this Site, the assessment and characterization activities were grouped together for expediency. A total of twelve (12) borings were installed using a combination of methods. Six (6) borings were completed using an air rotary drilling rig (BH-1, BH-2, BH-3, BH-7, BH-9, and Bh-10) and six (6) were completed via hand auger (BH-5, BH-6, BH-11, Bh-12, BH-13, and Bh-14). Three (3) borings (BH-1 through BH-3) were installed within the interior of the individual release extents to achieve vertical delineation of the releases. Boring locations BH-1 and BH-3 were each installed to a depth of 20 feet bgs, while BH-2 was installed to 40 feet bgs, based on field soil screening results.

BH-1 and BH-2 are the vertical delineation points for the 2016 release (nJXK1616547061). The nine (9) remaining borings (B-5, BH-6, BH-7, and BH-9 through BH-14) were installed to various depths on the perimeter of the release to the north, south, east, and west to confirm horizontal delineation of the release footprints. Boring logs presenting soil descriptions, sample depths, and field screening data from the October 2020 assessment activities are provided in **Attachment 3**.

**Figures 4A** and **4B** depict the release extents, excavated areas in response to the 2019 release (nRM2003534693), and the October 2020 soil assessment. Initial response excavation, remediation extents, and deferral location information related to the 2016 release (nJXK1616547061) Are available from the NMOCD Permitting portal under incident nTO1518757703. **Table 1** presents the locations of the soil assessment locations. A total of forty-eight (48) samples were collected from the twelve borings and submitted to Pace Analytical Laboratory in Mount Juliet, Tennessee for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method 300.0.

# 2020 Soil Assessment Sampling Results

Results from the October 2020 soil sampling event are summarized in **Table 2** screened against Reclamation Requirements. boring locations BH-1 (0-1 feet bgs), BH-2 (0-4 feet bgs), and BH-3 (0-4 feet bgs) reported chloride at concentrations greater than the Reclamation Requirement for chloride of 600 mg/kg. Additionally, analytical

results reported for the 0-1 foot bgs intervals at BH-3 and BH-7 reported TPH at concentrations greater than The reclamation requirement for TPH of 100 mg/kg. The laboratory analytical results reported for the remaining samples analyzed reported constituent concentrations as less than Reclamation Requirements or RRALs, as applicable.

Analytical sampling results that reported constituent concentrations as greater than reclamation requirements are from borings located on the Vacuum Abo Battery #4 lease pad. All samples collected from borings located in off-site pasture areas reported constituent concentrations as less than Site RRALs. The laboratory analytical data packages were previously submitted to the NMOCD and are available from the NMOCD Permitting portal under Incident nRM2003534693.

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# 2022 SITE DELINEATION AND SAMPLING RESULTS

# 2022 Site Delineation Sampling

In order to meet the requirements of 19.15.29.11 NMAC, Tetra Tech personnel conducted additional soil sampling on February 17 and February 25, 2022, on behalf of COP. A total of four (4) trenches (T-1 through T-4) were installed using a mini excavator. The trenches were excavated to achieve vertical delineation of the impacted bar ditch area north of the Vacuum Abo Battery #4 facility. Although the NMOCD requested samples in the road, Buckeye Road is a relatively impermeable asphalt-topped road and sampling for constituents of concern would require asphalt coring that may result in inconclusive data. Based on the age of the release and the impermeability of the asphalt, sampling these areas was not deemed practical or warranted as the sidewall confirmation samples in the remediation locations near the road edges will demonstrate no impacts would be present beneath the road surface.

The collected samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for the analysis of BTEX, TPH, and chloride. The sample locations are shown in **Figure 5** and location coordinates are provided in **Table 1**.

# 2022 Site Delineation Sampling Analytical Results

The results of the 2022 site delineation sampling conducted in February 2022 are summarized in **Table 2** screened against Reclamation Requirements. Analytical results associated with T-1, which was installed on the northern edge of the battery pad, reported chloride at concentrations greater than the reclamation requirement of 600 mg/kg down to 3 feet bgs, but below the Site RRAL of 10,000 mg/kg. Analytical results associated with T-4 reported TPH at concentrations greater than the reclamation requirements for TPH of 100 mg/kg down to 1 foot bgs. The remainder of the analytical results for samples analyzed during the February 2022 site delineation sampling reported constituent concentrations as less than reclamation requirements for constituents analyzed. The laboratory analytical data packages for the 2022 site delineation sampling were previously submitted to the NMOCD and are available from the NMOCD Permitting portal under Incident ID nRM2003534693.

# 2022 REMEDIATION WORK PLAN

Based on the results of the additional site assessment, COP proposed to treat the bar ditch area in situ in the vicinity of T-4 with Micro-Blaze, a microbial formulation used for bioremediation of hydrocarbons and other organic compounds. Following the application, COP proposed to conduct confirmation sampling in this area to confirm the efficacy of the proposed remedial strategy. Additionally, COP requested that NMOCD defer remediation activities on and adjacent to the lease pad until battery abandonment, retrofit, or inactivity, when remediation would be completed with reclamation.

# NMOCD REJECTION OF 2022 WORK PLAN

On September 15, 2022, the NMOCD rejected the 2022 Remediation Work Plan submitted on behalf of COP under Incident nRM2003534693. This section responds to relevant NMOCD comments to provide clarification, further detail, and/or actions taken by Maverick where appropriate in response to NMOCD comments. To provide clarity, the NMOCD rejection comments are reiterated below along with Maverick's response.

"Bioremediation to treat the bar ditch area in-situ with Micro-Blaze is approved. Confirmation samples should be collected every 200 ft<sup>2</sup> in the bar ditch and on the battery pad. "Confirmation samples should be collected every 200 ft<sup>2</sup> in the bar ditch and on the battery pad The battery pad will require full sampling delineation. The deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. As much contaminated soil as possible should be removed safely with alternative methods. Only sample points that could cause a major

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facility deconstruction will be deferred. Specify exactly which sample points you are asking for a deferral on and the reason the contaminants can't be removed. The work will need to occur in 90 days after the report has been reviewed."

In lieu of pursuing in-situ remediation and deferral, Maverick opted to remediate the affected areas through excavation and disposal of the affected material in accordance with requirements of 19.15.29.12 NMAC.

# ARCHEOLOGICAL RECORDS MANAGEMENT SECTION REVIEW

To comply with 1.10.15 NMAC and New Mexico State Land Office (NMSLO) requirements, Tetra Tech conducted an Archaeological Survey for the Site. The Archeological Survey findings under NMCRIS Activity Number were reported as Negative - No further archaeological review is required for the project area within NMSLO-managed lands on lease number B025190000, GS21120002. No subsurface cultural materials were encountered during remediation activities. The redacted ARMS Review letter is included in Attachment 3.

# REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced on February 9, 2024, and concluded on February 22, 2024. Maverick's subcontractor, SDR Enterprises (SDR) used heavy equipment to excavate impacted soil from the remediation area to depths of 1, 3, and 4 feet bgs. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed. SDR excavated a total of 441 cubic yards of contaminated soil from four excavations with an approximate total area of 5,025 square feet. Excavated material was transported to R360 Halfway Disposal and Landfill in Hobbs, New Mexico, for offsite disposal. Photographic documentation showing the open excavation is provided in Attachment 5.

# **Confirmation Sampling**

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 45 final confirmation samples including 23 5-point composite floor samples and 22 five-point composite side wall samples from the excavated areas. The remediation excavation confirmation sampling areas were comprised of the following:

- A 1 foot deep excavation on the facility pad with an approximately 2,330 square foot base and 245 square feet of sidewall for a total area of 2,575 square feet from which 18 confirmation samples were collected for a sampling density of approximately one confirmation sample per 144 square feet;
- A 1 foot deep to 4 foot deep excavation in the bar ditch to the east with an approximately 1,325 square foot base and 490 square foot sidewall for a total area of 1,815 square feet from which 12 confirmation samples were collected for a sampling density of approximately one confirmation sample per 152 square feet;
- A 3 foot deep excavation on the facility pad with an approximately 635 square foot base and 330 square foot sidewall for a total area of 956 square feet from which seven (7) confirmation samples were collected for a sampling density of approximately one confirmation sample per 107 square feet; and
- A 4 foot deep excavation on the facility pad with an approximately 775 square foot base and 460 square feet of sidewall for a total area of 1,235 square feet from which seven (7) confirmation samples were collected for a sampling density of approximately one sample per 177 square feet.

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. Initial floor confirmation sample FS-21 (1.0) collected from 1.0 to 1.5 feet bgs reported a chloride concentration of chloride as greater than Reclamation

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Requirements and was subsequently over-excavated to 3 feet bgs and re-sampled and submitted for laboratory analysis. Laboratory analytical results for final confirmation samples reported concentrations of BTEX, TPH, and chloride as less than respective Reclamation Requirements demonstrating clean margins.

Confirmation sample laboratory analytical results screened against Reclamation Requirements are summarized in **Table 3** and laboratory analytical data packages including chain of custody documentation remediation confirmation sampling are included in **Attachment 5**.

## **Excavation Backfill**

Between February 22 and February 23, 2024, subsequent to the receipt of confirmation sample results, SDR completed backfilling of the excavated areas with clean caliche on the facility pad and clean topsoil in the bar ditch excavations. SDR sourced clean backfill from nearby pits. 270 cubic yards of caliche and 90 cubic yards of clean topsoil were sourced from Seth Boyd Pit.

# **Reclamation and Revegetation**

To restore the impacted surface areas to the condition that existed prior to the release, the excavated areas in the pasture have been backfilled with clean topsoil in pasture areas and excavations on the facility pad have been backfilled with caliche to restore the facility pad surface. The disturbed areas have been graded back to match the surrounding topography and the pre-existing conditions 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 pasture areas of the Site were seeded with New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture to aid in vegetation growth to complete reclamation in accordance with the Site soil profile detailed above in the Site Characterization Section. Seeding was broadcast and 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 6.** 

At the end of service, the well pad site will be reclaimed and revegetated in accordance with NMOCD requirements and a reclamation report will be prepared and submitted to the NMOCD in accordance with the *EMNRD Notice Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions* requirements.

# **VARIANCE REQUEST**

Tetra Tech and Maverick understand that failure to notify the NMOCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. The remediation associated with this incident was conducted concurrently with a number of other remediations during and shortly after the 2023 holiday period. Tetra Tech failed to notify the NMOCD of Additional Remediation sampling two business days in advance in accordance with 19.15.29.12.D.(1).(a). Tetra Tech respectfully requests a variance for the failure to notify the NMOCD of sampling in consideration of the significant changes to the NMOCD notification process and changes that were implemented by the NMOCD in early December 2023.

Tetra Tech has reviewed the C-141N notification process and NMOCD *Public Notice Implementation of Digital C-141 and Incident Statuses* document dated December 1, 2023, and has shifted to strictly adhering to the sampling notification requirements of 19.15.29.12.D.(1).(a) NMAC and NMOCD notification guidance. Tetra Tech is currently submitting C-141N notifications two business days prior to conducting any remediation confirmation sampling.

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CONCLUSION

Based on the results of the confirmation sampling, the impacted soil within the release footprint with chloride and TPH 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 in pasture areas. 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 upon well pad reclamation at the end of Site service life. If you have any questions concerning the remediation activities for the Site, please contact Charles Terhune by email at <a href="mailto:Charles.Terhune@tetratech.com">Charles.Terhune@tetratech.com</a> or by phone at (832) 252-2093.

Sincerely,

Chris Straub Project Manager

Tetra Tech, Inc.

Charles H. Terhune IV, P.G.

Program Manager

Tetra Tech, Inc.

CC:

Bryce Wagoner, Maverick Permian, LLC

New Mexico State Land Office

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Remediation Report and Closure Request

Maverick Permian, LLC

Vacuum Abo Battery #4 Trunkline Releases

Incident IDs: nJXK1616547061 & nRM2003534693

# LIST OF ATTACHMENTS

# **Figures**

Figure 1 - Site Location Map

Figure 2 – Topographic Map

Figure 3A – 2016 Approximate Release Extent

Figure 3B - 2019 Approximate Release Extent

Figure 4A – Site Assessment Locations

Figure 4B – Site Assessment Locations

Figure 5 – Additional Site Assessment Locations

Figure 6A – On-Pad Remediation Extents and Confirmation Sampling

Figure 6B – Bar Ditch Remediation Extents and Confirmation Sampling

# **Tables**

Table 1 - Soil Assessment Locations

Table 2 - Summary of Analytical Results - Soil Assessment Sampling

Table 3 – Summary of Analytical Results – Remediation Confirmation Sampling

# **Attachments**

Attachment 1 - Site Characterization Data

Attachment 2 – Boring Logs

Attachment 3 - Cultural Resource

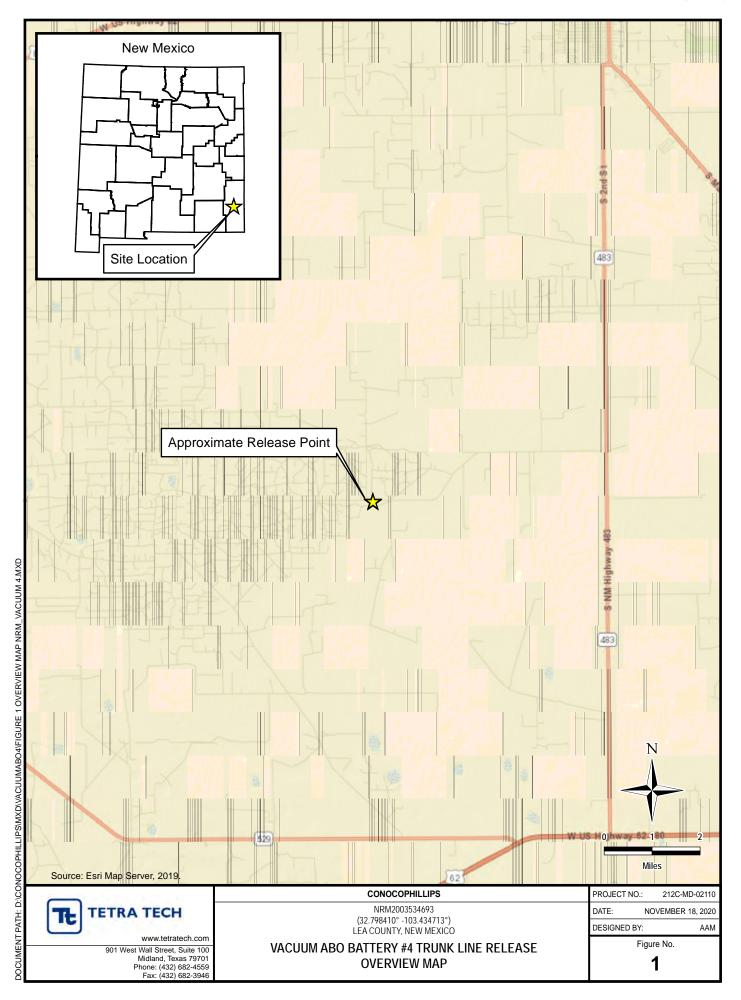
Attachment 4 – Photographic Documentation

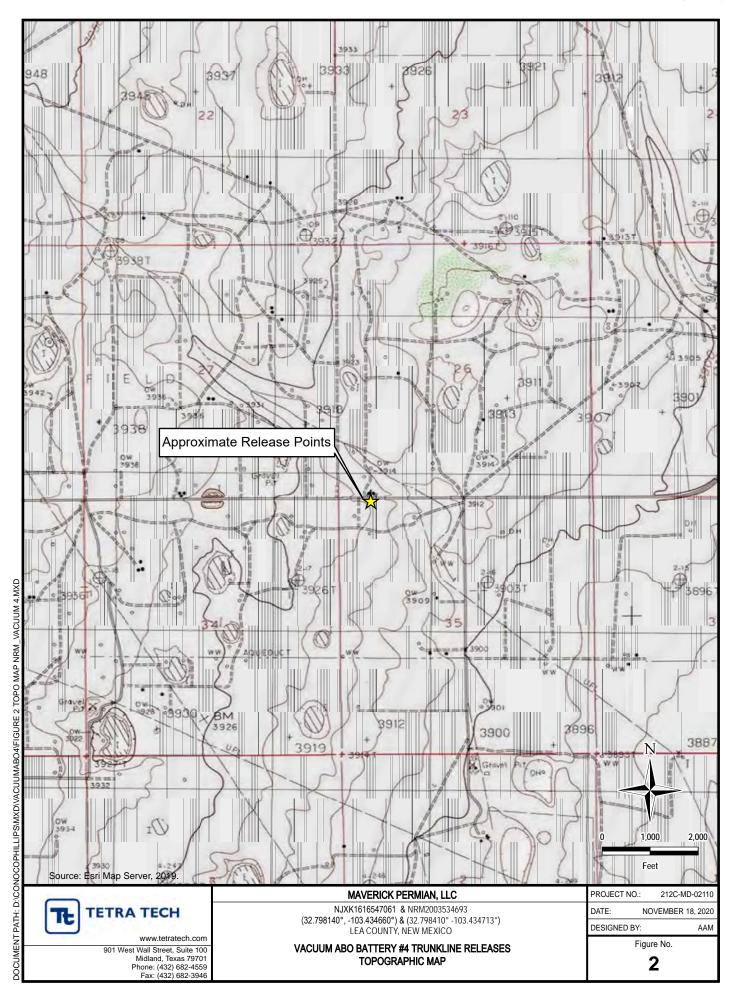
Attachment 5 - Laboratory Analytical Reports

Attachment 6 - NMSLO Seed Mixture Details

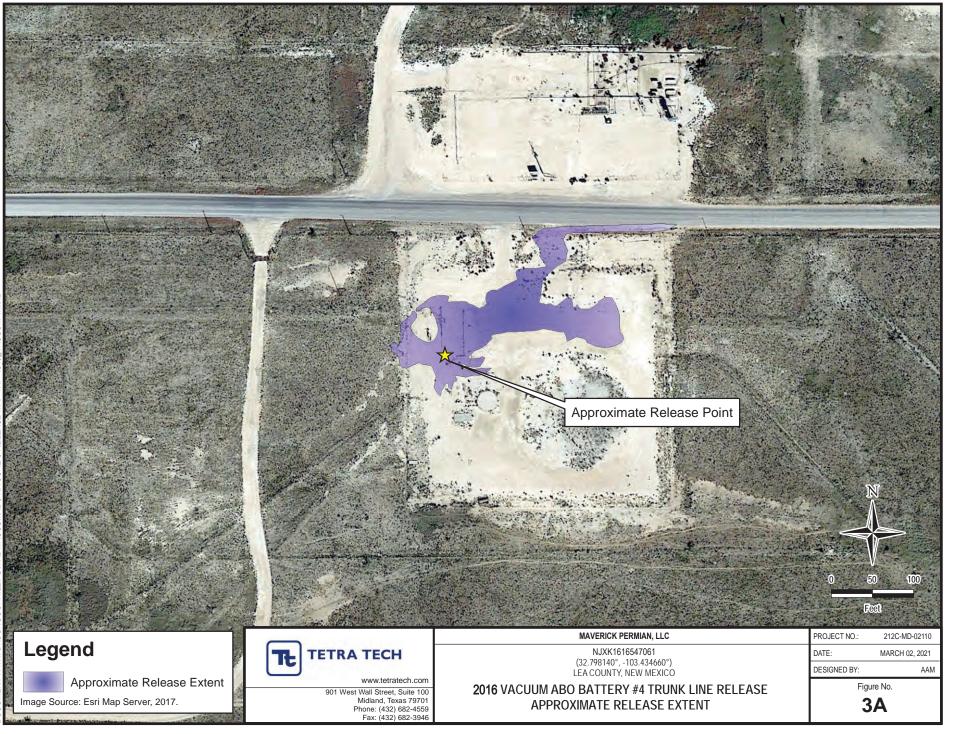
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# **FIGURES**

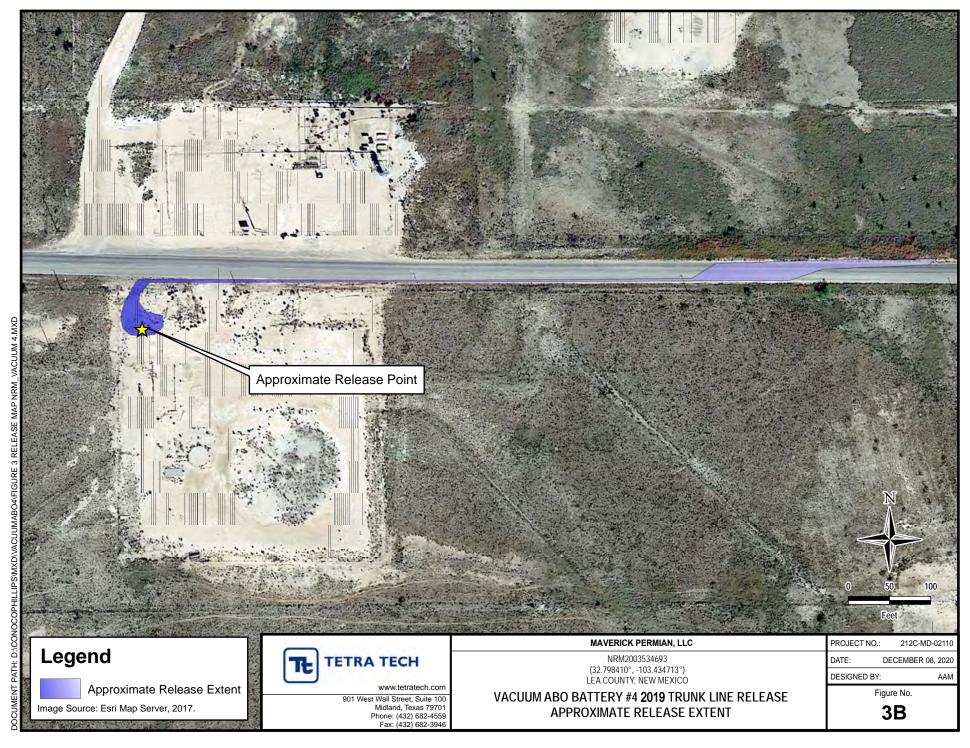




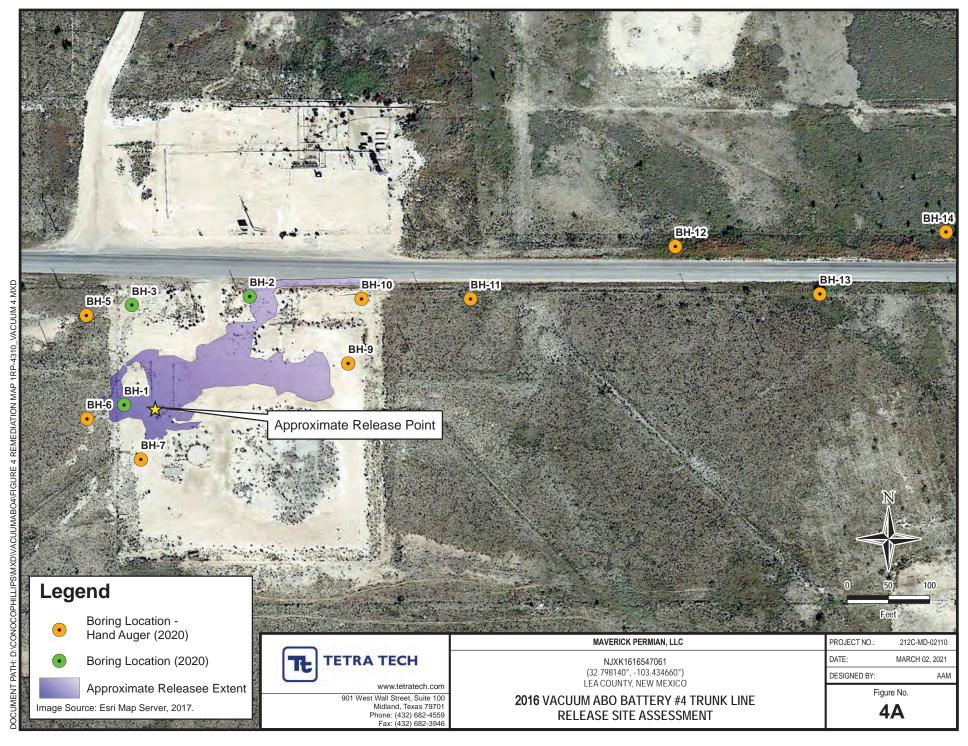
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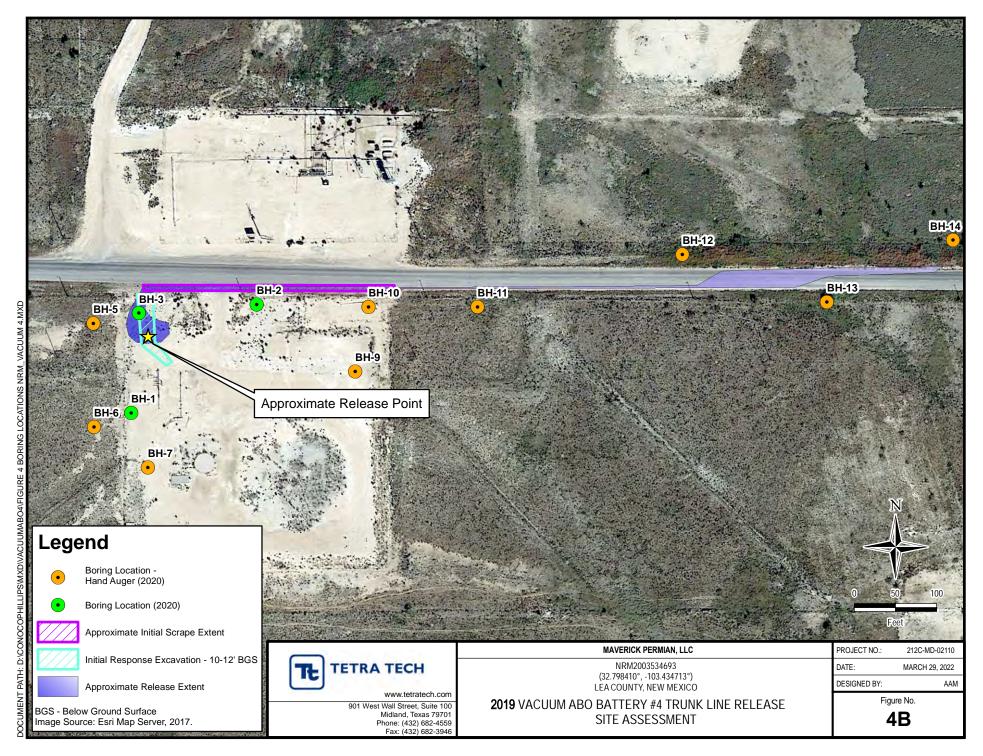


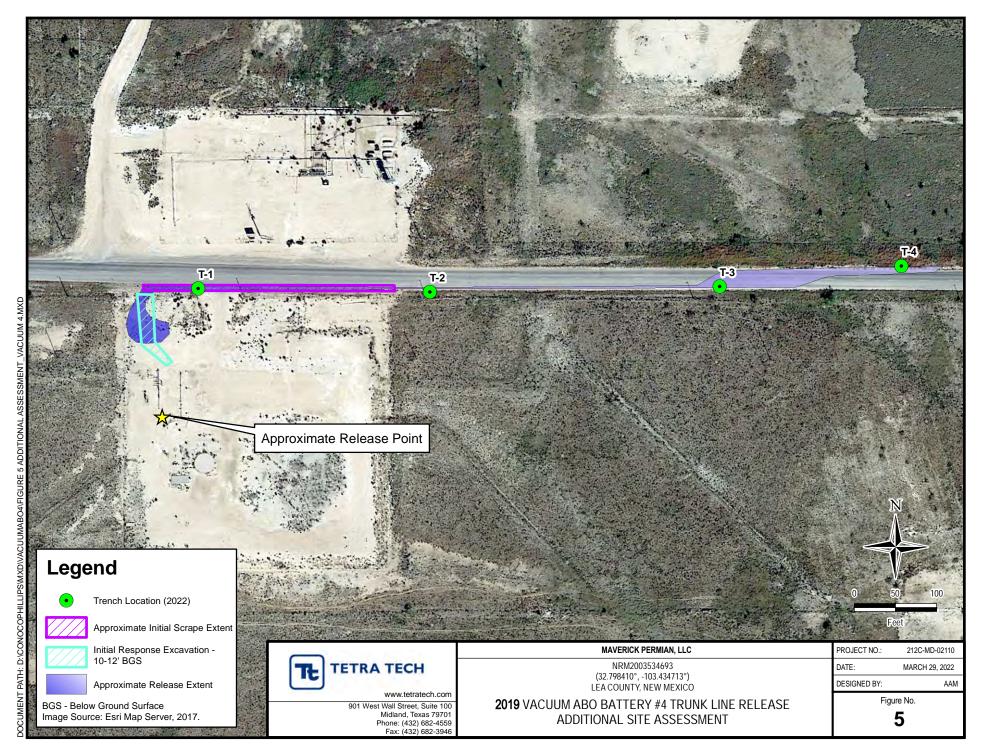
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1500 CityWest Boulevard Suite 1000 Houston, Texas 77042

32.798140°, -103.434660° & 32.798410°, -103.434713°

Lea County, New Mexico
VACUUM ABO BATTERY #4 TRUNK LINE RELEASES **ON-PAD EXCAVATION AND CONFIRMATION SAMPLING** 

**Figure** 6A





1500 CityWest Boulevard Suite 1000 Houston, Texas 77042 nJXK1616547061 & nRM2003534693 32.798140°, -103.434660° & 32.798410°, -103.434713° Lea County New Mexico

Lea County, New Mexico
VACUUM ABO BATTERY #4 TRUNK LINE RELEASES
BAR-DITCH EXCAVATION AND CONFIRMATION SAMPLING

PROJECT NO: DATE: DESIGNED BY: 212C-HN-03372 MAY 24, 2024 CHT

Figure 6B

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# **TABLES**



# TABLE 1

# SOIL ASSESSMENT LOCATIONS INCIDENT IDS NJXK1616547061 & NRM2003534693

# **MAVERICK PERMIAN, LLC**

# VACUUM ABO BATTERY #4 TRUNK LINE RELEASES LEA COUNTY, NEW MEXICO

Boring ID	Date	Latitude	Longitude
BH-1	10/13/2020	32.798153	-103.434817
BH-2	10/13/2020	32.798500	-103.434330
BH-3	10/13/2020	32.798469	-103.434784
BH-4		Boring ID not used	
BH-5	10/13/2020	32.798446	-103.434976
BH-6	10/13/2020	32.798081	-103.434961
BH-7	10/14/2020	32.797961	-103.434748
BH-8		Boring ID not used	
BH-9	10/14/2020	32.798282	-103.433912
BH-10	10/14/2020	32.798502	-103.433857
BH-11	10/13/2021	32.798499	-103.433394
BH-12	10/13/2021	32.798687	-103.432567
BH-13	10/13/2021	32.798519	-103.432003
BH-14	10/13/2021	32.798707	-103.431501
T-1	2/17/2022	32.798563	-103.434547
T-2	2/17/2022	32.798546	-103.433625
T-3	2/17/2022	32.798542	-103.432427
T-4	2/17/2022	32.798646	-103.431691



# TABLE 2 SOIL ASSESSMENTS SAMPLING ANALYTICAL RESULTS INCIDENTS NJXK1616547061 & NRM2003534693 MAVERICK PERMIAN, LLC VACUUM ABO BATTERY #4 TRUNK LINE RELEASES LEA COUNTY, NEW MEXICO

									BTEX <sup>2</sup>								TPH <sup>3</sup>				
		Sample Depth	Chloride	e <sup>1</sup>											GRO		DRO		ORO		Total TPH
Sample ID	Sample Date		omona.		Benzene	•	Toluene	Э	Ethylbenze	ene	Total Xyle	nes	Total BTE	X	C <sub>6</sub> - C <sub>10</sub>	,	> C <sub>10</sub> - C	200	> C <sub>28</sub> - C	26	(GRO+DRO+ORO)
		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 Reg	uirements (19.15.2		600	ì	10		mg/ng		mg/ng		mg/ng		50		mg/ng		g, r.g		g,g		100
	10/13/2020	0 - 1	642		< 0.00106		0.0017	J	< 0.00266		0.000958	.J	0.00266		0.0534	J	1.89	J.J	3.74	.J	5.68
	10/13/2020	2 - 3	340	1	< 0.00107		< 0.00537	Ť	< 0.00268		< 0.00698	۳	-		< 0.104	۲	< 4.15	+ -	1.81	J	1.81
	10/13/2020	4 - 5	365	1	< 0.00115		< 0.00573		< 0.00287		< 0.00745		_		0.0443	J	< 4.29		< 4.29	۳	0.0443
BH-1	10/13/2020	6 - 7	176	1	< 0.00111		< 0.00556		< 0.00278		< 0.00723		_		< 0.106	Ť	< 4.23		< 4.23		-
	10/13/2020	9 - 10	114	1	< 0.00107		< 0.00535		< 0.00268		< 0.00696		_		0.0672	J	< 4.14		< 4.14		0.0672
	10/13/2020	14 - 15	120	1	< 0.00110		< 0.00550		< 0.00275		< 0.00715		_		< 0.105		< 4.20		< 4.20		-
	10/13/2020	19 - 20	172	1	< 0.00119		< 0.00594		< 0.00297		< 0.00772		-		0.0502	J	< 4.37		< 4.37		0.0502
	10/13/2020	0 - 1	1,000		< 0.00103		< 0.00517		< 0.00259		< 0.00672		_		< 0.102	_	13.3		30.2		43.5
	10/13/2020	2 - 3	1,050	1	< 0.00109		< 0.00543		< 0.00271		< 0.00705		-		0.0245	J	3.11	J	4.28		7.41
	10/13/2020	4 - 5	346		< 0.00105		< 0.00526		< 0.00263		< 0.00684		-		0.0313	J	< 4.11	Ť	< 4.11		0.0313
	10/13/2020	6 - 7	371	1	< 0.00109		< 0.00543		< 0.00271		< 0.00706		-		< 0.104		< 4.17		< 4.17		-
	10/13/2020	9 - 10	114	1	0.000544	J	< 0.00550		< 0.00275		< 0.00715		0.000544		< 0.105		< 4.20		< 4.20		-
BH-2	10/13/2020	14 - 15	986	1	< 0.00151		< 0.00753		< 0.00376		< 0.00978		-		< 0.125		< 5.00		< 5.00		-
	10/13/2020	19 - 20	471	1	< 0.00125		< 0.00626		< 0.00313		< 0.00813		-		0.0253	J	4.45	J	3.26	J	7.74
	10/13/2020	24 - 25	310	1	< 0.00111		< 0.00555		< 0.00277		< 0.00721		-		< 0.105		2.38	J	< 4.22		2.38
	10/13/2020	29 - 30	282	1	< 0.00109		< 0.00545		< 0.00272		< 0.00708		-		< 0.104		1.93	J	< 4.18		1.93
	10/13/2020	34 - 35	239	1	< 0.00108		< 0.00540		< 0.00270		< 0.00703		-		< 0.104		3.03	J	< 4.16		3.03
	10/13/2020	39 - 40	252	1	< 0.00108		< 0.00542		< 0.00271		0.00352	J	0.00352		0.0303	ВJ	2.53	J	1.12	ΒЈ	3.68
	10/13/2020	0 - 1	4,650		0.000547	J	< 0.00526		0.000911	J	0.00341	J	0.00487		0.0568	ВJ	99.7		136		236
	10/13/2020	2 - 3	1,530		< 0.00106		< 0.00531		< 0.00266		< 0.00691		-		0.0346	ВJ	22.5		28.4		50.9
	10/13/2020	4 - 5	77	$\top$	< 0.00103		< 0.00515		< 0.00257	Ī	< 0.00669		-		0.0336	ВJ	4.76		5.52		10.3
BH-3	10/13/2020	6 - 7	15.8	J	< 0.00114		< 0.00572		< 0.00286		< 0.00744		-		0.0307	ВJ	< 4.29		0.998	ВJ	1.03
	10/13/2020	9 - 10	66.2	1	< 0.00112		< 0.00558		< 0.00279		< 0.00726		-		0.0236	ВJ	< 4.23		1.68	ΒJ	1.7
	10/13/2020	14 - 15	93.6	1	< 0.00118		< 0.00588		< 0.00294	Ī	< 0.00765		-		0.0275	ВJ	< 4.35		0.957	ВJ	0.985
	10/13/2020	19 - 20	55.3		< 0.00111		< 0.00554		< 0.00277		< 0.00720		-		0.0286	ВJ	2.73	J	0.911	ВJ	3.67
BH-5	10/13/2020	0 - 1	< 20.3		0.000539	J	0.00144	J	< 0.00256		< 0.00667		0.00198		0.0423	ВJ	8.01		22.5		30.6
BH-6	10/13/2020	0 - 1	35.8	1	0.0011		0.00274	J	< 0.00258		0.00134	J	0.00518		0.0348	ВJ	4.54		17.6		22.2
	10/14/2020	0 - 1	20.8	1	< 0.00104		< 0.00518		< 0.00259		< 0.00673		-		0.0283	ВJ	18.9		188		207
	10/14/2020	2 - 3	16.5	J	< 0.00106		< 0.00532		< 0.00266		< 0.00691		-		0.032	ВJ	4.01	J	28.4		32.4
BH-7	10/14/2020	4 - 5	96.9		< 0.00107		< 0.00535		< 0.00268		< 0.00696		-		0.0298	ВJ	< 4.14		2.68	ВJ	2.71
	10/14/2020	6 - 7	320		< 0.00114		< 0.00568		< 0.00284		< 0.00738		-		< 0.107		< 4.27		0.364	ΒJ	0.364
	10/14/2020	9 - 10	341		< 0.00112		< 0.00559		< 0.00279		< 0.00727		-		0.0553	ВJ	< 4.23		< 4.23		0.0553
	10/14/2020	0 - 1	36.3		< 0.00106		< 0.00528		< 0.00264		< 0.00686		-		0.0264	ВJ	< 4.11		1.36	ΒJ	1.39
BH-9	10/14/2020	2 - 3	30.9		< 0.00110		< 0.00549		< 0.00274		< 0.00714		-		0.025	ВJ	< 4.20		3.87	ΒJ	3.9
	10/14/2020	4 - 5	31.7		< 0.00110		< 0.00552		< 0.00276		< 0.00718		-		0.0284	ΒJ	< 4.21		1.53	ΒJ	1.56
	10/14/2020	0 - 1	47.4		< 0.00104	L	< 0.00520		< 0.00260		< 0.00675		-		0.0316	ΒJ	2.34	J	8.13		10.5
	10/14/2020	2 - 3	37.5		< 0.00105		< 0.00524		< 0.00262		< 0.00681		-		0.0264	ВJ	< 4.10		1.34	ΒJ	1.37
BH-10	10/14/2020	4 - 5	113		< 0.00111		< 0.00553		< 0.00277		< 0.00719		-		< 0.105		< 4.21		0.598	ΒJ	0.598
	10/14/2020	6 - 7	80.6		< 0.00117		< 0.00583		< 0.00291		< 0.00757		-		0.0271	ΒJ	< 4.33		0.425	ΒJ	0.452
	10/14/2020	9 - 10	34.8		< 0.00111	L	< 0.00554		< 0.00277		< 0.00720		-		0.0522	ΒJ	< 4.21		0.455	ΒJ	0.507
BH-11	10/13/2020	0 - 1	44.9		0.000971	L	< 0.00511		< 0.00255		< 0.00664		0.000971		0.0302	ΒJ	9.69		29.5		39.2
	10/13/2020	2 - 3	163		0.00106		0.00134	J	< 0.00258		< 0.00672		0.0024		0.0289	ВJ	10.8		37.8		48.6
BH-12	10/13/2020	0 - 1	12.4	J	< 0.00109		< 0.00544		< 0.00272		0.00292	ВJ	0.00292		0.0448	ВJ	5.31		20.1		25.5
DH-12	10/13/2020	2 - 3	< 21.2		< 0.00112		< 0.00561		< 0.00281		0.00224	BJ	0.00224		0.0307	ВJ	8.86		25.1		34
BH-13	10/13/2020	0 - 1	24.9		< 0.00107		0.00166	J	0.000877	J	0.00321	ΒJ	0.00575		0.0541	ВJ	10.9		38.3		49.3
טו-וט	10/13/2020	2 - 3	55.6		< 0.00113		< 0.00565		< 0.00283		0.00101	ВJ	0.00101		0.102	J	6.46		21.3		27.9



# TABLE 2 SOIL ASSESSMENTS SAMPLING ANALYTICAL RESULTS INCIDENTS NJXK1616547061 & NRM2003534693 MAVERICK PERMIAN, LLC VACUUM ABO BATTERY #4 TRUNK LINE RELEASES

# LEA COUNTY, NEW MEXICO

									BTEX <sup>2</sup>										TPH <sup>3</sup>		
Commis ID	Commis Data	Sample Depth	Chloride	<sup>1</sup>	Danasa		Taluana		Etherdhouse		Total Vida		Total DT	EV	GRO		DRO		ORO		Total TPH
Sample ID	Sample Date				Benzene	•	Toluene		Etnyibenzene		Total Xylenes		Total BTEX		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+ORO)
		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
BH-14	10/13/2020	0 - 1	219		< 0.00110		< 0.00552		< 0.00276		0.00127	ВJ	0.00127		0.0447	J	9.1		21.7		30.8
DП-14	10/13/2020	2 - 3	452		< 0.00113		< 0.00566		< 0.00283		0.00736	ВJ	0.00736		0.0482	J	11.1		24.2		35.3
	2/17/2022	0 - 1	656		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		12.3		< 10.0		12.3
T-1	2/17/2022	2 - 3	3,640		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		19.8		20.7		40.5
1-1	2/17/2022	4 - 5	176		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		1
	2/17/2022	6 - 7	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		1
	2/17/2022	0 - 1	528		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		1
T-2	2/17/2022	2 - 3	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		1
1-2	2/17/2022	4 - 5	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		1
	2/17/2022	6 - 7	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		1
T-3	2/17/2022	0 - 1	288		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
T-4	2/17/2022	0 - 1	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		102		< 10.0		102
1 <del>- 4</del>	2/25/2022	1 - 2	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

NOTES:

bgs: Below ground surface mg/kg: Milligrams per kilogram

GRO: Gasoline Range Organics

1: Method 300.0

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC). B: The same analyte is found in the associated blank

TPH: Total Petroleum Hydrocarbons

ORO: Oil Range Organics

DRO: Diesel Range Organics

2: Method 8260B3: Method 8015M

J: The reported value is an estimate



# TABLE 3 SUMMARY OF ANALYTICAL RESULTS SOIL CONFIRMATION SAMPLING - INCIDENTS NJXK1616547061 & NRM2003534693 MAVERICK PERMIAN, LLC VACCUM ABO Battery #4 TRUNK LINE RELEASES LEA COUNTY, NEW MEXICO

				BTEX <sup>2</sup> TPH <sup>3</sup>							TPH <sup>3</sup>							
		Sample Depth	Chloride <sup>1</sup>						T.				GRO		DRO	EXT DRC		Total TPH
Sample ID	Sample Date			Benzen	е	Toluene	Э	Ethylbenzen	ie i	Total Xylenes	Total B	ΓEX	C <sub>6</sub> - C <sub>10</sub>	)	> C <sub>10</sub> - C <sub>28</sub>	> C <sub>28</sub> - C <sub>3</sub>	6	(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 Requ	uirements (19.15.29	NMAC)	600	10							50							100
FS - 1 (1.0)	2/19/2024	1.0 - 1.5	32	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 2 (1.0)	2/19/2024	1.0 - 1.5	240	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 3 (1.0)	2/19/2024	1.0 - 1.5	208	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 4 (1.0)	2/19/2024	1.0 - 1.5	448	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 5 (1.0)	2/19/2024	1.0 - 1.5	32	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 6 (1.0)	2/19/2024	1.0 - 1.5	464	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 7 (1.0)	2/19/2024	1.0 - 1.5	32	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 8 (1.0)	2/19/2024	1.0 - 1.5	224	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 9 (1.0)	2/19/2024	1.0 - 1.5	48	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 10 (1.0)	2/19/2024	1.0 - 1.5	384	< 0.050		<0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS-11	-	-								Location ID	skipped di	ıring s	sampling					
FS - 12 (4.0')	2/16/2024	4.0 - 4.5	96	< 0.050		<0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 13 ( 4.0' )	2/16/2024	4.0 - 4.5	160	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 14 (4.0')	2/16/2024	4.0 - 4.5	112	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 15 (4.0')	2/16/2024	4.0 - 4.5	272	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 16 (3.0')	2/16/2024	3.0 - 3.5	288	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 17 (3.0')	2/16/2024	3.0 - 3.5	496	< 0.050		< 0.050		<0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 18 (3.0')	2/16/2024	3.0 - 3.5	480	< 0.050		< 0.050		<0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 19 (4.0)	2/19/2024	3.0 - 3.5	184	< 0.050		< 0.050		<0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 20 (3.0)	2/19/2024	3.0 - 3.5	112	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 21 (1.0)	2/19/2024	1.0 - 1.5	2,480	< 0.050		<0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 21 (3.0')	2/22/2024	2.0 - 2.5	416	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 22 (1.0)	2/19/2024	1.0 - 1.5	144	< 0.050		< 0.050		<0.050	_	<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 23 (1.0)	2/19/2024	1.0 - 1.5	16	< 0.050		< 0.050		< 0.050	_	<0.150	< 0.300		<10.0		<10.0	<10.0		-
FS - 24 (1.0)	2/19/2024	1.0 - 1.5	16	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
WS - 1	2/19/2024	0.0 - 1.0	256	< 0.050		<0.050		<0.050	_	<0.150	< 0.300		<10.0		<10.0	<10.0		-
WS - 2	2/19/2024	0.0 - 1.0	128	< 0.050		<0.050		<0.050	_	<0.150	< 0.300		<10.0		<10.0	<10.0		-
WS - 3	2/19/2024	0.0 - 1.0	32	< 0.050		<0.050		<0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-
WS - 4	2/19/2024	0.0 - 1.0	16	< 0.050		<0.050		<0.050	_	<0.150	< 0.300		<10.0		<10.0	<10.0		-
WS - 5	2/19/2024	0.0 - 1.0	16	< 0.050		< 0.050		<0.050	_	<0.150	< 0.300		<10.0		<10.0	<10.0		-
WS - 6	2/19/2024	0.0 - 1.0	16	< 0.050		< 0.050		< 0.050	$\perp$	<0.150	< 0.300		<10.0		<10.0	<10.0	[	-
WS - 7	2/19/2024	0.0 - 1.0	16	< 0.050		<0.050		< 0.050	$\perp$	<0.150	<0.300		<10.0		<10.0	<10.0	[	-
WS - 8	2/19/2024	0.0 - 1.0	144	< 0.050	Щ	<0.050		< 0.050	$\perp$	<0.150	< 0.300		<10.0		<10.0	<10.0		-
WS - 9	2/16/2024	0.0 - 4.0	352	< 0.050		< 0.050		<0.050	$\perp$	<0.150	< 0.300	$\perp$	<10.0		<10.0	<10.0		-
WS - 10	2/16/2024	0.0 - 4.0	112	< 0.050		< 0.050		<0.050		<0.150	< 0.300	$\perp$	<10.0		<10.0	<10.0		-
WS - 11	2/16/2024	0.0 - 4.0	80	< 0.050		< 0.050		<0.050		<0.150	< 0.300	$\perp$	<10.0		<10.0	<10.0		-
WS - 12	2/16/2024	0.0 - 4.0	80	< 0.050		< 0.050		< 0.050		<0.150	< 0.300		<10.0		<10.0	<10.0		-



# TABLE 3

# **SUMMARY OF ANALYTICAL RESULTS** SOIL CONFIRMATION SAMPLING - INCIDENTS NJXK1616547061 & NRM2003534693 MAVERICK PERMIAN, LLC **VACCUM ABO Battery #4 TRUNK LINE RELEASES** LEA COUNTY, NEW MEXICO

									BTEX <sup>2</sup>										TPH <sup>3</sup>		
Sample ID	Sample Date	Sample Depth	Chlorid	e <sup>1</sup>	Benzen		Toluene		Ethylbonzo	Ethylbenzene Total Xyle		nac	Total BTI	=v	GRO		DRO		EXT DRO		Total TPH
Sample ID	Sample Date				Delizeli	6	Toluelik	<b>-</b>	Elliyibelize	ene	TOTAL AYIE	lies	TOTAL DIE	-^	C <sub>6</sub> - C <sub>10</sub>		> C <sub>10</sub> - C	28	> C <sub>28</sub> - C <sub>3</sub>	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
<b>Reclamation Req</b>	uirements (19.15.29	NMAC)	600		10								50								100
WS - 13	2/16/2024	0.0 - 3.0	96		< 0.050		< 0.050		< 0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-
WS - 14	2/16/2024	0.0 - 3.0	96		< 0.050		< 0.050		< 0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-
WS - 15	2/16/2024	0.0 - 3.0	544		< 0.050		< 0.050		< 0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-
WS - 16	2/16/2024	0.0 - 3.0	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		<10.0		<10.0		<10.0		-
WS - 17	2/19/2024	0.0 - 4.0	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		<10.0		<10.0		<10.0		-
WS - 18	2/19/2024	0.0 - 1.0	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		<10.0		<10.0		30		30
WS - 19	2/19/2024	0.0 - 1.0	16		< 0.050		< 0.050		< 0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		-
WS - 20	2/19/2024	0.0 - 1.0	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		<10.0		<10.0		<10.0		-
WS - 21	2/19/2024	0.0 - 4.0	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		<10.0		<10.0		<10.0		-
WS - 22	2/19/2024	0.0 - 4.0	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		<10.0		<10.0		18		18

# NOTES:

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

ORO: Oil Range Organics

1: Method SM4500CI-B

2: Method 8021B

3: Method 8015M

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

June 14, 2024

# **ATTACHMENT 1 – SITE CHARACTERIZATION DATA**

# National Flood Hazard Layer FIRMette





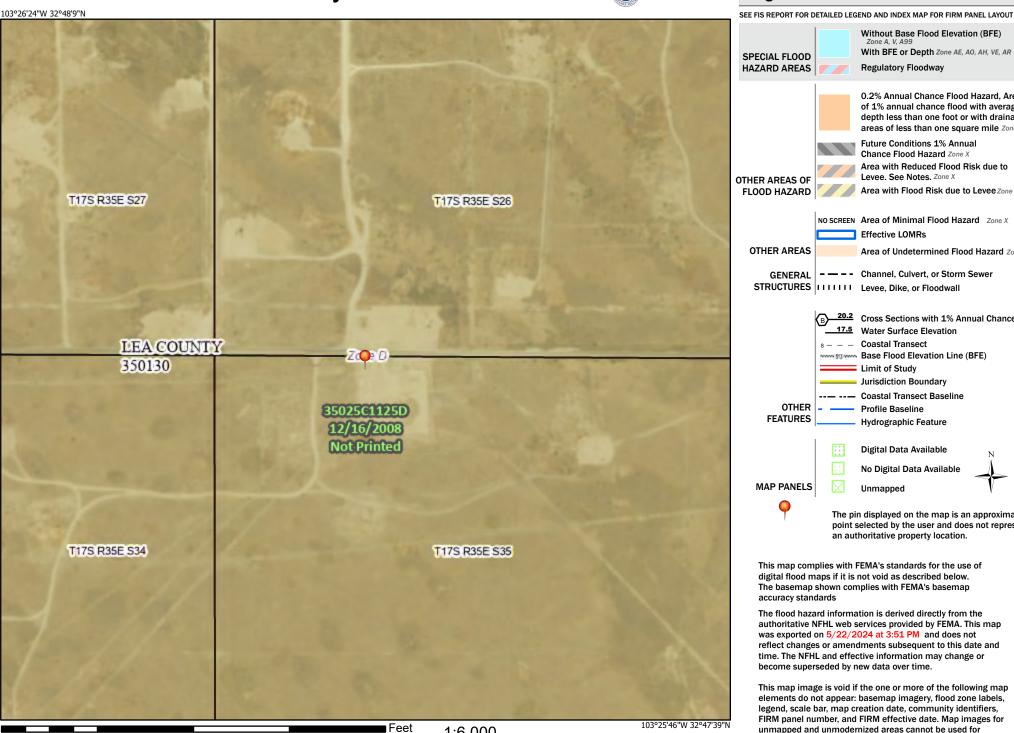
Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary**  — --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent

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

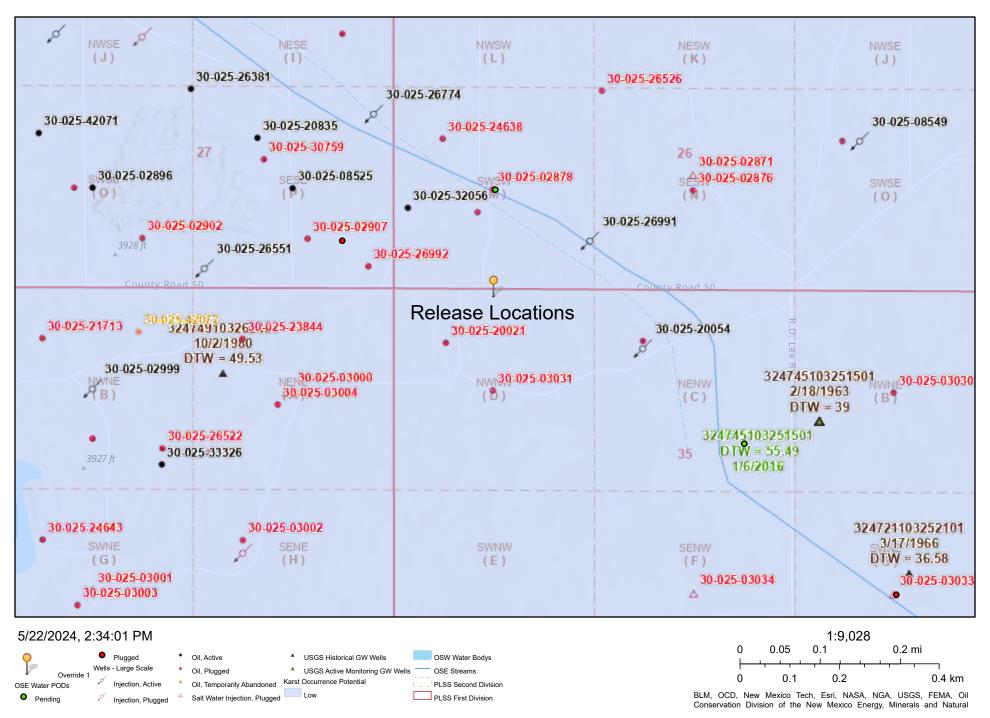
an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/22/2024 at 3:51 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



# **OCD Well Locations**



# Vacuum Abo Battery #4 Trunkline Releases



May 22, 2024

# Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Lake

Freshwater Forested/Shrub Wetland

Other

Riverine

Freshwater Pond



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



# 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												
	Sub-		Q	Q (	2						Depth	Depth	Water
POD Number	Code basin	County	64	16 4	4 Sec	Tws	Rng	X	Υ	Distance	Well	Water	Column
L 04859	L	LE	4	4	4 27	17S	35E	646258	3630135* 🌕	323	145	85	60
L 04881	L	LE		1 :	3 26	17S	35E	646556	3630644* 🎒	620	137	50	87

Average Depth to Water: 67 feet

**DEPTH TO WATER** 

Minimum Depth: 50 feet

Maximum Depth: 85 feet

**Record Count: 2** 

**UTMNAD83 Radius Search (in meters):** 

**Easting (X):** 646561.8 **Northing (Y):** 3630023.63 **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.



# MAP LEGEND

### Area of Interest (AOI)

Area of Interest (AOI)

### Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

### **Special Point Features**

Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



**Gravelly Spot** 



Landfill



Lava Flow Marsh or swamp





Mine or Quarry Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip

Sodic Spot

Spoil Area

Stony Spot



Very Stony Spot



Wet Spot

Other



Special Line Features

### Water Features

Streams and Canals

### Transportation

---

Rails

Interstate Highways



**US Routes** 



Major Roads



Local Roads

# Background



Aerial Photography

# MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

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

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

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

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

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

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

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

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

# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ко	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	47.1	49.9%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	30.8	32.6%
SS	Stegall and Slaughter soils	16.6	17.5%
Totals for Area of Interest		94.5	100.0%

Vacuum Abo Battery #4 Trunkline

# Lea County, New Mexico

# KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes

# **Map Unit Setting**

National map unit symbol: 2tw43 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, dry, and similar soils: 80 percent

Minor components: 20 percent

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

# **Description of Kimbrough, Dry**

# 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)

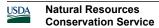
Sodium adsorption ratio, maximum: 1.0

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

# Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s



Vacuum Abo Battery #4 Trunkline

Hydrologic Soil Group: D

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

Hydric soil rating: No

# **Minor Components**

### **Eunice**

Percent of map unit: 10 percent

Landform: Plains

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

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

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

Hydric soil rating: No

# Kenhill

Percent of map unit: 4 percent

Landform: Plains

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

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

Hydric soil rating: No

# **Data Source Information**

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



**USGS** Home Contact USGS Search USGS

# **National Water Information System: Web Interface**

**USGS Water Resources** 

Data Category:		Geographic Area:		
Site Information	~	United States	<b>~</b> ] [	GO

### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

# USGS 324745103251501 17S.35E.35.213132

Available data for this site Groundwater: Field measurements

# **Well Site**

### **DESCRIPTION:**

Latitude 32°47'46.3", Longitude 103°25'39.7" NAD83 Lea County, New Mexico , Hydrologic Unit 12080003

Well depth: 121 feet

Land surface altitude: 3,908 feet above NAVD88.

Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer.

Well completed in "Ogallala Formation" (1210GLL) local aquifer

## AVAILABLE DATA:

Data Type	<b>Begin Date</b>	End Date	Count
Field groundwater-level measurements	1940-09-26	2024-02-08	143
Revisions	Unavailable (	site:0) (timese	eries:0)
Additional Data Sources	Begin Date	End Date	Count

# OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

**Questions or Comments** Automated retrievals <u>Help</u> **Data Tips Explanation of terms** Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: NWIS Site Information for USA: Site Inventory

URL: https://waterdata.usgs.gov/nwis/inventory?agency\_code=USGS&site\_no=324745103251501

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2024-05-22 15:44:53 EDT

0.28 0.28 caww01





USGS Home Contact USGS Search USGS

#### **National Water Information System: Web Interface**

**USGS Water Resources** 

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

#### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

#### Search Results -- 1 sites found

**Agency code =** usgs **site\_no list =** • 324745103251501

Minimum number of levels = 1

**Date range =**  $01/01/2000 \cdot 05/22/2024$ 

Save file of selected sites to local disk for future upload

#### USGS 324745103251501 17S.35E.35.213132

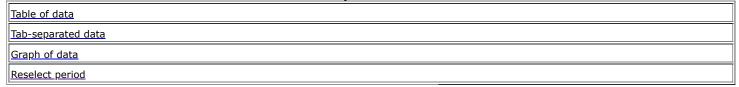
Available data for this site Groundwater: Field measurements V GO
Lea County, New Mexico
Hydrologic Unit Code 12080003
Latitude 32°47'46.3", Longitude 103°25'39.7" NAD83
Land-surface elevation 3,908 feet above NAVD88

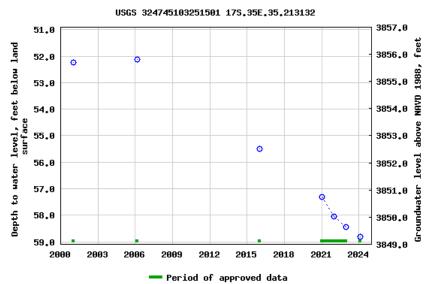
The depth of the well is 121 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

#### **Output formats**





Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

OKL. IICPS://IWIS.Waterdata.usgs.gov/IIWIS/gwievels:

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-05-22 15:46:45 EDT

0.75 0.49 nadww01



June 14, 2024

## **ATTACHMENT 2 – BORING LOGS**

Project Name:					1 of 1
	/acuum Abo Ba	attery #4 Trunkli	ine Releas	e	
Borehole Location	: GPS Coordinate	es: 32.798154°, -103	3.434782°	Surface Elevation: 3920 ft	
Borehole Number	BH-1		Bore Diam	hole eter (in.): 8 Date Started: 10/13/2020 Date Finished	: 10/13/2020
	ppm) ERY (%)	(f)	X	WATER LEVEL OBSERVATIONS While Drilling   □ DRY ft Upon Completion of Drilling □ D  Remarks:	RY_ft
OPERATION TYPE SAMPLE CHLORIDE FIELD	<b>─</b>		MINUS NO. 200 (%)	MATERIAL DESCRIPTION  (E)  H  H  H  H  H  H  H  H  H  H  H  H  H	REMARKS
				FILL MATERIAL; White, poorly cemented, with no odor, with no staining.	BH-1 (0'-1')
30	3			-SM- SILTY SAND; White, heavily cemented, with heavy gravel, with no odor, with no staining.	BH-1 (2'-3')
5					BH-1 (4'-5')
10 14 - 15 - 15 - 10 - 10 - 10 - 10 - 10 - 10	3			-SM- SILTY SAND; White, heavily cemented, with moderate gravel, with no odor, with no staining.  With interbedded caliche and calcrete.	BH-1 (6'-7') BH-1 (9'-10')
20 ) 20	<u> </u>			Bottom of borehole at 20.0 feet.	BH-1 (19'-20')
Sh	mple 🔼 Californi	hear N A A A A A A A A A A A A A A A A A A	Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger  Air Rotary  Direct Push  Core Barrel  Notes:  Surface elevation is an estimated value based or Earth. Laboratory analytical sample IDs and intershown in the "Remarks" column.	n Google vals are

212	C-M	D-0	2110	T	E) T	ETRA	ATEC	СН						LOG OF E	BORI	NG BH-2			Page 1 of 2
Proje	ect N	lam	e: Vac	cuum Al	ю В	atter	y #4	Trur	ıkline	Re	leas	se							
Bore	hole	Loc	cation:	GPS Coo	rdinat	tes: 32	.7985	12°, -′	103.43	4283	·	5	Surface Elev	ation: 3917 ft					
Bore	hole	Nu	mber:	BH-2							Bore Dian	ho	er (in.):	Date Start	ted: 1	0/13/2020	Date F	inishe	d: 10/13/2020
			(md	(md	RY (%)	ENT (%)	(		DEX				While Drillin	WATER LE g <u>∇ DRY</u> ft		OBSERVAT		Ā □	DRY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	T LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	OC - OIHavao	GRAPHIC LUG	M	ATERIAL DES	SCRII	PTION		DEPTH (ft)	REMARKS
	7	M										$\bigotimes$	FILL M no odor, v	ATERIAL; Whitwith no staining.	e, poc	orly cemente	d, with	1	BH-2 (0'-1')
-		X											-SM- SIL with heav	TY SAND; White gravel, with no pedded caliche	odor	, with no sta	ed, ining.		BH-2 (2'-3')
5_	$\langle \rangle$	X																BH-2 (4'-5')	
-   -		488											with mode	TY SAND; White erate gravel, with pedded caliche	h no o	dor, with no	ed, staining.	5.5  	BH-2 (6'-7')
10_		X	360															_	BH-2 (9'-10')
- - 15		X	604															_ _ _ _ _	BH-2 (14'-15')
20		X	843										with heav	TY SAND; White y gravel, with no pedded caliche	odor	, with no sta			BH-2 (19'-20')
			5/11										no gravel	TY SAND; Tan, with no odor, w	vith no	staining.	with		BH-2 (24'-25')
Sam Type	541  Split Spoon Shelby Shelby Shelby Grab Sample Sample Test Pit						r 7	Opera Types	S: Muc Rota	ary Itinuoi ht Aug sh ary			Hand Auger Air Rotary Direct Push Core Barrel	Notes: Surface elevat Earth. Laborat shown in the "I	ory ar	nalytical sam	ple IDs ar	ased o	n Google

212	C-MI	D-0	2110	T	E) T	ETRA	ATEC	СН					I	LOG OF BORING BH-2			Page 2 of 2
Proje	ct Na	ame	e: Vac	uum Ab	ю В	atter	y #4	Trur	ıkline	Rel	ease						
Borel	nole	Loc	cation:	GPS Coo	rdinat	tes: 32	.7985	<b>12°</b> , -1	03.43	4283°		Surface Eleva	atior	n: 3917 ft			
Borel	nole	Nu	mber:	BH-2						E	Boreho Diame	ole ter (in.):		Date Started: 10/13/2020	Date Fir	nished	: 10/13/2020
	ш		ELD (ppm)	(mdd	ERY (%)	TENT (%)	cf)		NDEX			While Drilling		WATER LEVEL OBSERVATION <u>▼ DRY</u> ft Upon Completion of Dr		Ā D	RY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	T LIQUID LIMIT	고 PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	M	ΑT	ERIAL DESCRIPTION		DЕРТН (ft)	REMARKS
30		X	490												-	- - -	BH-2 (29'-30') BH-2 (34'-35')
35	\ \ \	<u> </u>	401										Bo	ttom of borehole at 35.0 feet.		35	B11-2 (04-00)
Sam <sub>l</sub> Type		h	Split Spoon Shelby Bulk Sample Grab Sample					Opera Types	Muc Rota Con Fligh Was Rota	ary tinuou nt Aug sh ary		Air Rotary Direct Push Core Barrel	Su Ea sh	otes: ourface elevation is an estimated va arth. Laboratory analytical sample nown in the "Remarks" column.	lue bas IDs and	ed or I inter	n Google vals are
Logg	er:	Joe	Tyler				[	Drillin	g Equ	ıipme	nt: Air	Rotary	Dri	iller: Scarborough Drilling			

212C-N	1D-0	2110	T	E) T	ETRA	ATEC	Н					LC	OG OF BORING BH-3			Page 1 of 1
Project N	Nam	e: Va	cuum Al	ю В	atter	y #4	Trur	nkline	Rel	ease						
Borehole	e Lo	cation:	GPS Coo	rdinat	tes: 32	.7984	86°, -1	103.43	4748°		Surface Eleva	ation:	3917 ft			
Borehole	Nu	mber:	BH-3						E	Boreho Diame	ole ter (in.):		Date Started: 10/13/2020	Date F	inished	d: 10/13/2020
		(mdc	(wda	ERY (%)	ENT (%)	f)		DEX			While Drilling		ATER LEVEL OBSERVATI DRY ft Upon Completion o		Ā D	RY_ft
DEPTH (ft) OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	T LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	M	ATEF	RIAL DESCRIPTION		DЕРТН (ft)	REMARKS
	M										FILL MA	ATER	IAL; White, poorly cemented	, with	1	BH-3 (0'-1')
		1390									-SM- SILT with heavy	TY SA y grav	ND; White, heavily cementeel, with no odor, with no stain	d, ning.	<b>-</b> '	BH-3 (2'-3')
5																BH-3 (4'-5')
10 10 15 15		161 204									with mode With interb  -SM- SILT with heavy	TY SAy grav	ND; White, heavily cemente gravel, with no so dor, with no so do caliche and calcrete.  ND; White, moderately cemel, with no odor, with no stain docaliche and calcrete.	ented,	5.5	BH-3 (6'-7')  BH-3 (9'-10')  BH-3 (14'-15')
Sampler Types:	ע ניי	Split Spoor Shelby Bulk Samp	y 🗐 V le 📈 C			r 1	Ppera ypes	i: Mud Rota ■ Con	ary itinuou ht Aug sh		<b>n</b> 1	Notes Surfa Earth	m of borehole at 20.0 feet.  : ace elevation is an estimated b. Laboratory analytical samp on in the "Remarks" column.	value ba le IDs an	sed or	n Google rvals are
Logger.	loo	Tylor					rillin	a Fai	iinme	nt· Air	Detem	Driller	Scarborough Drilling			

<u>ceive</u>	<i>d b</i> j	<i>o</i>	CD: 6/	14/2024	12:	<i>55:5</i>	9 P	$M_{\perp}$									Page 44 of
212	C-M	1D-0	2110	T	E) T	ETRA	TEC	СН					LOG OF BORING	BH-5			Page 1 of 1
Proje	ect N	lam	e: Vac	cuum Al	о В	atter	y #4	Trur	ıkline	Rel	ease	;				•	
Bore	hole	Lo.	cation:	GPS Coo	rdinat	es: 32	.7984	54°, -	103.43	4928°		Surface Elevation	n: 3918 ft				
Bore	hole	: Nu	mber:	BH-5						E	Boreh Diame	ole eter (in.):	Date Started: 10/13/	2020	Date F	inished	: 10/13/2020
			D. (mo	(ma	८५ (%)	:NT (%)			)EX			While Drilling Remarks:	WATER LEVEL OBSI	ERVATIO		Ā Dŀ	RY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG		FERIAL DESCRIPTIC	Ν		DEPTH (ft)	REMARKS
	1	m	99									-SM- SILTY no staining.	SAND; Brown, dry, with	no odor,	with	1	BH-5 (0'-1')
			33		1						E.E.F.		ottom of borehole at 1.0	) feet.		<u> </u>	,
Sam	pler	N. C.	Snlit					Dpera	ation								
Sam Type	pler es:		Split Spoon Shelby Bulk Sampl Grab Sampl	e <b>X</b> 0	Acetato /ane S Califor Test P	nia	r   T	Opera Types	Muc Rota	ary itinuou ht Auge sh	s er	Air Rotary S	otes: urface elevation is an e arth. Laboratory analytion nown in the "Remarks" o	cal sample	alue ba	sed on d inter	ı Google vals are

Driller: Tetra Tech

<u>ceive</u>	<u>d b</u> յ	<i>0</i>	CD: 6/1	14/2024	12:	<i>55:5</i>	9 P	<u> </u>									Page 45 of
212	2C-M	ID-0	2110	T	E T	ETRA	TEC	Н					L	OG OF BORING BH-6			Page 1 of 1
Proj	ect N	lam	<sub>e:</sub> Vac	cuum Ab	ю В	atter	y #4	Trur	nkline	Rel	ease						
Bore	hole	Loc	cation:	GPS Coo	rdinat	es: 32	.7981	08°, -	103.43	4929°		Surface Eleva	ation:	3920 ft			
Bore	hole	Nu	mber:	BH-6						E	Boreh Diame	ole ter (in.): 2		Date Started: 10/13/2020	Date F	inished	: 10/13/2020
			a (î	m)	۲۷ (%)	NT (%)			ĒX			While Drilling		VATER LEVEL OBSERVAT  DRY ft Upon Completion c		Ā Dŀ	RY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	T LIQUID LIMIT	D PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	M		RIAL DESCRIPTION		DEPTH (ft)	REMARKS
	1	m	130									-SM- SILT		AND; Brown, dry, with no odd	r, with	1	BH-6 (0'-1')
			100	1	1			l	1	<u> </u>	1.1.4.	ı 110 ətali illi		tom of borehole at 1.0 feet.		_!!	· ·
Şam	pler		Split		cottati	a Linea		<u> P</u> pera	ation			Hand Auger	Nete				
Тур	es:		Split Spoon Shelby Bulk Sample Grab Sample				r   Ť	ypes	Muc Rota	ary itinuou ht Auge sh	s er	Hand Auger Air Rotary Direct Push Core Barrel	Ear	es: face elevation is an estimated th. Laboratory analytical sam wn in the "Remarks" column.	l value ba ble IDs an	sed on d inter	i Google vals are

212C-MD-02110	TE TETRA	TECH	LOG OF BORING BH-7	Page 1 of 1
Project Name: V	acuum Abo Battery	v #4 Trunkline Releas	e	•
Borehole Location:	GPS Coordinates: 32.7	797971°, -103.434718°	Surface Elevation: 3919 ft	
Borehole Number:	BH-7	Borel Diam	hole beter (in.): 8 Date Started: 10/13/2020 Date Finishe	d: 10/13/2020
E (LD )	ppm) ERY (%) ENT (%)	X	WATER LEVEL OBSERVATIONS	DRY_ft
DEPTH (ft)  OPERATION TYPE  SAMPLE  CHLORIDE FIELD  SCREENING (ppm)	<b>─</b> ──	DRY DENSITY (pcf)  T LIQUID LIMIT  D PLASTICITY INDEX  MINUS NO. 200 (%)	MATERIAL DESCRIPTION (£) HEAD	REMARKS
			FILL MATERIAL; White, poorly cemented, with no odor, with no staining.	BH-7 (0'-1')
			-SM- SILTY SAND; White, heavily cemented, with heavy gravel, with no odor, with no staining.  With interbedded caliche and calcrete.	BH-7 (2'-3')
5			5.5	BH-7 (4'-5')
			-SM- SILTY SAND; White, heavily cemented, with moderate gravel, with no odor, with no staining.  With interbedded caliche and calcrete.	BH-7 (6'-7')
10				BH-7 (9'-10')
15				BH-7 (14'-15')
			with heavy gravel, with no odor, with no staining.  With interbedded caliche and calcrete.	BH-7 (19'-20')
20 ]) ]/ \		<u> </u>	Bottom of borehole at 20.0 feet.	( 20)
Sampler Types: Spirit Sport Sp	by Vane Shear    Vane Shear   California	Operation Types:  Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger  Air Rotary  Direct Push  Core Barrel  Notes:  Surface elevation is an estimated value based of Earth. Laboratory analytical sample IDs and integrated shown in the "Remarks" column.	n Google rvals are

212C-N	/ID-C	2110	T	E) T	ETRA	ATEC	Н					LC	OG OF BORING BH-9			Page 1 of 1
Project N	Nam	e: Vac	uum Al	о В	atter	y #4	Trur	kline	Rel	ease						
Borehole	e Lo	cation:	GPS Coo	rdinat	tes: 32	2.7982	<b>85</b> °, -1	03.43	3895°		Surface Eleva	ition:	3917 ft			
Borehole	e Nu	mber:	BH-9						E	Boreho Diame	ole ter (in.):		Date Started: 10/13/2020	Date F	inished	d: 10/13/2020
ш		ppm)	(mdd	ERY (%)	IENT (%)	of)		ADEX			While Drilling		ATER LEVEL OBSERVATIC  DRY ft Upon Completion of I		Ā D	RY_ft
DEPTH (ft) OPERATION TYPE	SAMPLE	CHLORIDE FIELD SS SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG			RIAL DESCRIPTION		DEPTH (ft)	REMARKS
	$\mathbb{N}$										FILL MA no odor, w	ATEF	RIAL; White, poorly cemented, o staining.	with	_1	BH-9 (0'-1')
											-SM- SILT with heavy	TY SA grav	AND; White, heavily cemented, vel, with no odor, with no staining a caliche and calcrete.	ng.	_	BH-9 (2'-3')
5	$\mathbb{N}$															BH-9 (4'-5')
10											with mode	rate	AND; White, heavily cemented, gravel, with no odor, with no stated caliche and calcrete.	aining.	5.5	BH-9 (6'-7') BH-9 (9'-10')
15											with heavy	/ gra\	AND; White, moderately cemer vel, with no odor, with no staini ed caliche and calcrete.			BH-9 (14'-15')
20	$\mathbb{N}$														20	BH-9 (19'-20')
Sampler Types:	2	Split Spoon Shelby Bulk Samplo Grab Samplo				r C	opera ypes	: Muc Rota Con	ary tinuou nt Aug sh	s er	Hand Auger	Notes Surf Eart	s: ace elevation is an estimated vh. Laboratory analytical sample vn in the "Remarks" column.	ralue ba e IDs an	sed o	n Google rvals are
Logger:	Joe	Tyler				[	Orillin	a Eai	uipme	nt: Air	Rotary	Drille	r: Scarborough Drilling			

212C-ME	D-02110	[	t	ETRA	TEC	Н					LO	G OF BORI	NG BH-10			Page 1 of 1
Project Na	ame: V	acuum A	bo B	atter	y #4	Trur	nkline	Rel	lease							
Borehole I	Location:	GPS Cod	ordina	tes: 32	.79849	95°, -1	103.43	3834°		Surface Eleva	ation:	3915 ft				
Borehole I	Number:	BH-10						E	Boreh Diame	ole eter (in.):		Date Started: 1	10/13/2020	Date Fi	inished	d: 10/13/2020
	ILD ppm)	(mdc	ERY (%)	ENT (%)	<b>sf)</b>		IDEX		<u>Jiame</u>	While Drilling			OBSERVATIO		Ā D	RY_ft
DEPTH (ft) OPERATION TYPE	SAMPLE  SAMPLE  CHLORIDE FIELD  SCREENING (ppm)		SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	T LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	M	ATER	RIAL DESCRI	PTION		DЕРТН (ft)	REMARKS
	X									FILL M/ no odor, w	ATER	IAL; White, po	orly cemented,	with	1	BH-10 (0'-1')
	5									-SM- SILT with heavy	TY SA y grav	ND; White, hea	avily cemented, r, with no stainir calcrete.	ng.	_	BH-10 (2'-3')
5										-SM- SIL1 with mode	TY SA erate g	ND; White, hea	avily cemented, odor, with no sta	aining.	5.5 _	BH-10 (4'-5') BH-10 (6'-7')
10	X									With interb	bedde	d caliche and c	calcrete.			BH-10 (9'-10')
15	X												oderately cemen r, with no stainir			BH-10 (14'-15')
										With interb	bedde	d caliche and c	calcrete.			
20	X									1					20	BH-10 (19'-20')
Sampler Types:	Spliit Spo	on I	Acetat	te Line	r C	) pera ypes	ation			<b>n</b> 1	Notes					
Logger	She Bulk Sam Gral Sam	iple	Vane S Califor Test F				Flight Was	ary tinuou nt Aug sh ary	ger L	Air Rotary Direct Push Core Barrel	Earth show	n. Laboratory ai n in the "Rema		ralue bas e IDs and	sed or	n Google rvals are
Logger: .	Jue i yier				L		y ⊏qւ	11hille	ent: Air	rotary	וווטט <sub> </sub>	: Scarborough Drilling	J			

ceived .	by C	OCD: 6/	<u> 14/2024</u>	12:	<u>55:5</u>	19 P	$M_{\underline{}}$						Page 49 of
212C-	-MD-	02110	T	E) T	ETRA	ATEC	Н				LOG OF BORING BH-11		Page 1 of 1
Project	t Nan	ne: Va	cuum Al	о В	atter	y #4	Trur	nkline	Rele	ease			
Boreho	ole Lo	ocation:	GPS Coo	rdinat	es: 32	.7984	98°, -	103.43	3410°		Surface Elevation: 3913 ft		
Boreho	ole N	umber:	BH-11						В	oreh	le er (in.): 2 Date Started: 10/13/2020 Date Finis	hed:	: 10/13/2020
		D. (mo	(mo	۲۲ (%)	(%) LN:			EX			WATER LEVEL OBSERVATIONS	DF	RY_ft
DEPTH (ft)	SAMPLE	X CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	D PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION		REMARKS
											<b>-SM-</b> SILTY SAND; Brown, dry, with no odor, with no staining.		BH-11 (0'-1') BH-11 (0'-1')
	٦١٠	225								<u>Maki</u>	Bottom of borehole at 2.0 feet.		2(0 .)
Sample Types:		Split Spoor Shelby Bulk Samp Grab Samp		cetato dane S Califor est P	nia	r T	pera ypes	Mud Rota	ary itinuou: ht Auge sh	Seer L	Hand Auger  Air Rotary  Direct Push  Core Barrel  Notes:  Surface elevation is an estimated value based Earth. Laboratory analytical sample IDs and in shown in the "Remarks" column.	l on iterv	Google vals are

ceived by	OCD: 6	/14/2024	12:	<u>55:5</u>	9 P	<u> </u>					Page 50 of
212C-MI	D-02110	T	<b>E</b> T	ETRA	TEC	СН				LOG OF BORING BH-12	Page 1 of 1
Project Na	<sub>ame:</sub> Va	cuum Al	о В	atter	y #4	Trur	nkline	Rel	ease		
Borehole	Location:	GPS Coo	rdinat	es: 32	.7986	67°, -′	103.43	2599°		Surface Elevation: 3910 ft	
Borehole	Number:	BH-12						E	Boreh Diame	ole ter (in.): 2 Date Started: 10/13/2020 Date Finish	ed: 10/13/2020
	(wd.	(mdi	:RY (%)	ENT (%)	f)		DEX			WATER LEVEL OBSERVATIONS	DRY_ft
DEPTH (ft) OPERATION TYPE	SAMPLE  CHLORIDE FIELD  SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION (£)	REMARKS
	250									<b>-SM-</b> SILTY SAND; Brown, dry, with no odor, with no staining.	BH-12 (0'-1')
	m 190									2	BH-12 (0'-1')
										Bottom of borehole at 2.0 feet.	
Sampler Types:	Split Spoo	oy \( \begin{array}{c} \lambda \\ \end{array} \)	Acetate /ane S Califori	nia	r   C	Opera Types	Muc Rota	ary itinuou ht Auge sh	s er	Hand Auger  Air Rotary  Air Rotary  Direct Push  Core Barrel  Notes:  Surface elevation is an estimated value based Earth. Laboratory analytical sample IDs and integrated shown in the "Remarks" column.	on Google ervals are

Driller: Tetra Tech

ceived by OCD: 6/14/2024 12:55:59 PM Page 51 of																	
212	C-M	D-0	2110	T	E) T	ETRA	TEC	Н				L	OG OF BORIN	G BH-13			Page 1 of 1
Proje	Project Name: Vacuum Abo Battery #4 Trunkline Release																
Borel	hole	Lo	cation:	GPS Coo	rdinat	es: 32	.7985	04°, -	103.43	2030°		Surface Elevatio	n: 3910 ft				
Borel	hole	Nu	mber:	BH-13						E	Boreh Diame	ole ter (in.): 2	Date Started: 10	/13/2020	Date Fi	nished	: 10/13/2020
		SAMPLE	CHLORIDE FIELD  SCREENING (ppm)	(mo	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	☐ PLASTICITY INDEX	MINUS NO. 200 (%)	Jame	While Drilling Remarks:	WATER LEVEL O <u>▼ DRY</u> ft Upon	BSERVATIC		Ā D∣	RY_ft
DEPTH (ft)	OPERATION TYPE			UOC FIELD SCREENING (ppm)							GRAPHIC LOG		ERIAL DESCRIP	TION		DЕРТН (ft)	REMARKS
_	1	EN .	260 305									-SM- SILTY no staining.	SAND; Brown, dry,	with no odor,	with .	- 1	BH-13 (0'-1') BH-13 (0'-1')
	•		303					l			Literie	В	ottom of borehole at	t 2.0 feet.		2	
Samı Type	oler s:	7	Split Spoor Shelb Bulk Samp Grab Samp	y 🚺 V le $old C$	Acetatoriane Salifor	nia	r T	pera ypes	Mud Rota	ary itinuou ht Auge sh	ss er	Air Rotary Si	tes: ırface elevation is a arth. Laboratory ana own in the "Remark	alytical sample	value bas e IDs and	ed or I inter	n Google vals are

<u>ceive</u>	<i>l b</i> y	00	CD: 6/1	4/2024	12:	55:5	59 P	<u> </u>						Page 52 of
212	C-M	D-0	2110	T	E) T	ETRA	ATEC	СН					LOG OF BORING BH-14	Page 1 of 1
Proje	Project Name: Vacuum Abo Battery #4 Trunkline Release													
Borel	hole	Loc	cation:	GPS Coo	rdinat	tes: 32	2.7987	07°, -	103.43	1531°		Surface Eleva	ation: 3910 ft	
Borehole Number: BH-14 Boreho										E	Boreh Diame	ole eter (in.):	Date Started: 10/13/2020 Date Finished:	10/13/2020
			OH)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	☐ PLASTICITY INDEX	MINUS NO. 200 (%)		While Drilling	WATER LEVEL OBSERVATIONS  g   V DRY ft Upon Completion of Drilling  V DRY	_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)								GRAPHIC LOG	M	ATERIAL DESCRIPTION (문) 보실	REMARKS
	Ŧ	m	420									-SM- SILT	TY SAND; Brown, dry, with no odor, with a.	-14 (0'-1')
	<b>}</b>	m	450									, ,	<sub>2</sub> BH-	-14 (0'-1')
	Bottom of borehole at 2.0 feet.										Bottom of borehole at 2.0 feet.			
Sam Type	oler s:		Split Spoon Shelby Bulk Sample Grab Sample				r 1	Opera Types	Mud Rota	ary itinuou ht Aug sh	s er	Hand Auger Air Rotary Direct Push Core Barrel	Notes: Surface elevation is an estimated value based on Generath. Laboratory analytical sample IDs and intervals shown in the "Remarks" column.	oogle s are

Driller: Tetra Tech

June 14, 2024

## **ATTACHMENT 3 – CULTURAL RESOURCE SURVEY**



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

#### NMSLO Cultural Resources Cover Sheet Exhibit

#### **NMCRIS Activity Number:**

**Exhibit Type** (select one)

(if applicable)

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

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

#### **Archaeological Survey**

Findings:

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

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

#### **Comments:**

#### **Project Details:**

NMSLO Lease Number (if available):

**Cultural Resources Consultant:** 

Project Proponent (Applicant):

Project Title/Description:

#### **Project Location:**

County(ies):

PLSS/Section/Township/Range):

#### For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

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

Form Revised 12 22

June 14, 2024

## **ATTACHMENT 4 – PHOTOGRAPHIC DOCUMENTATION**



Site Remediation Tetra Tech Maverick- Vacuum #4 Feb 16 2024, 12:05:20 MST





# 

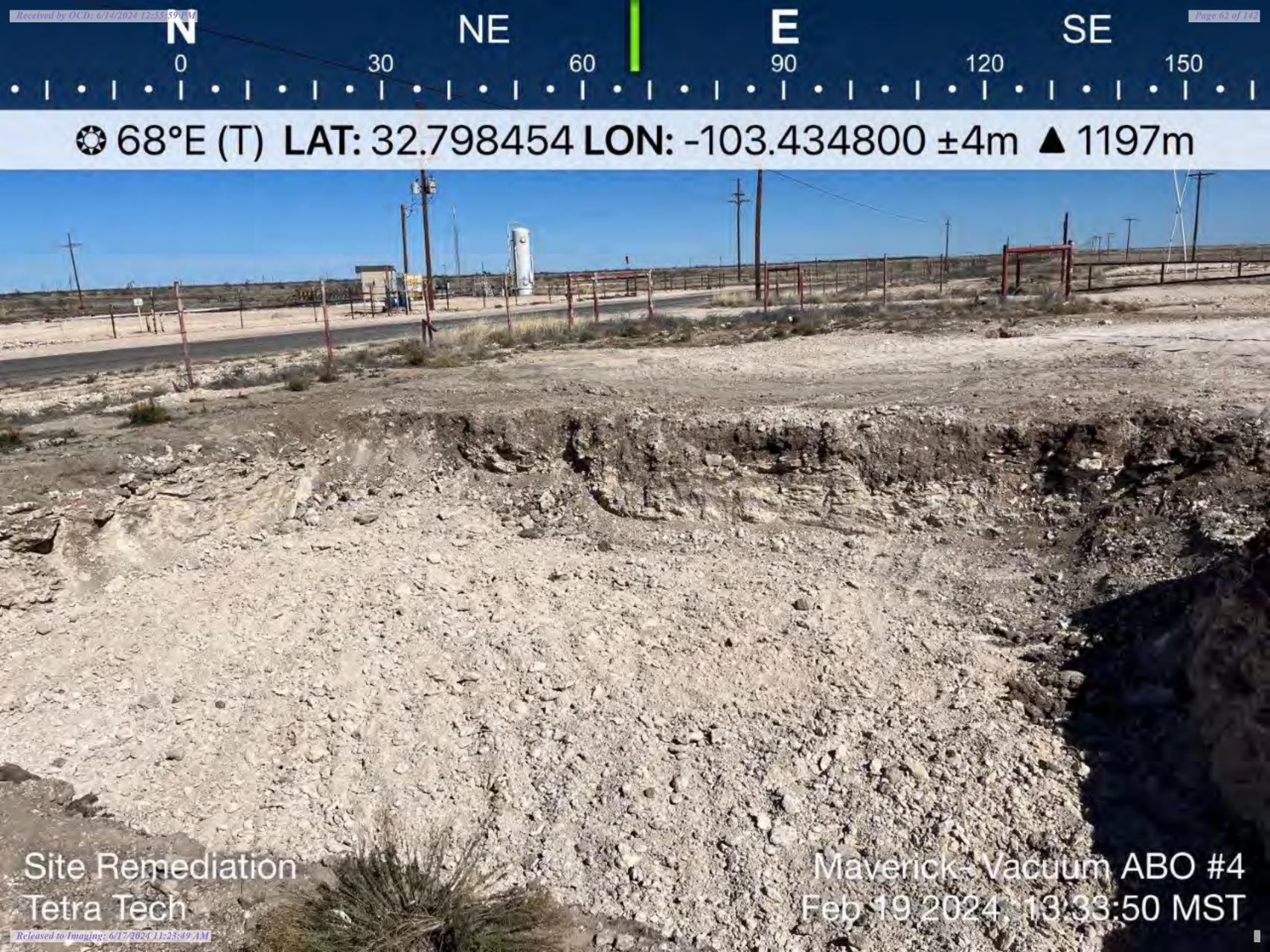














## 



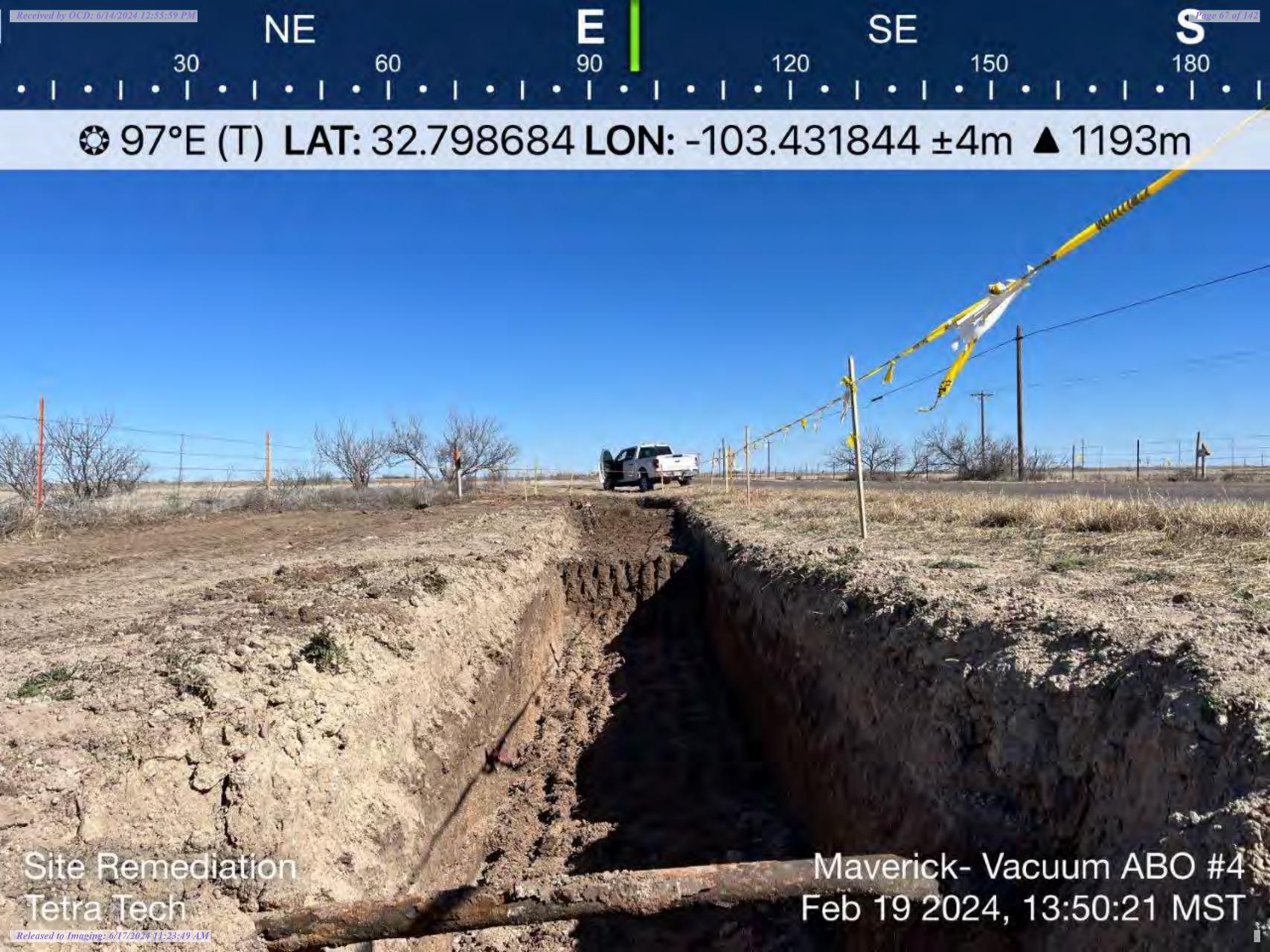


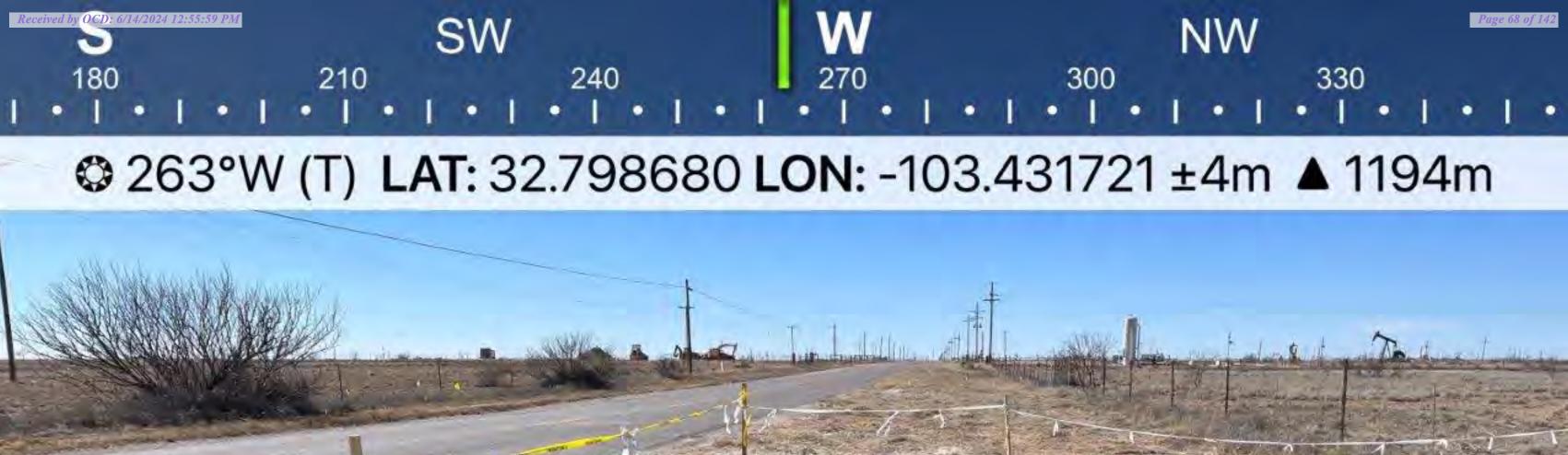


## 

© 252°W (T) LAT: 32.798542 LON: -103.434241 ±4m ▲ 1197m



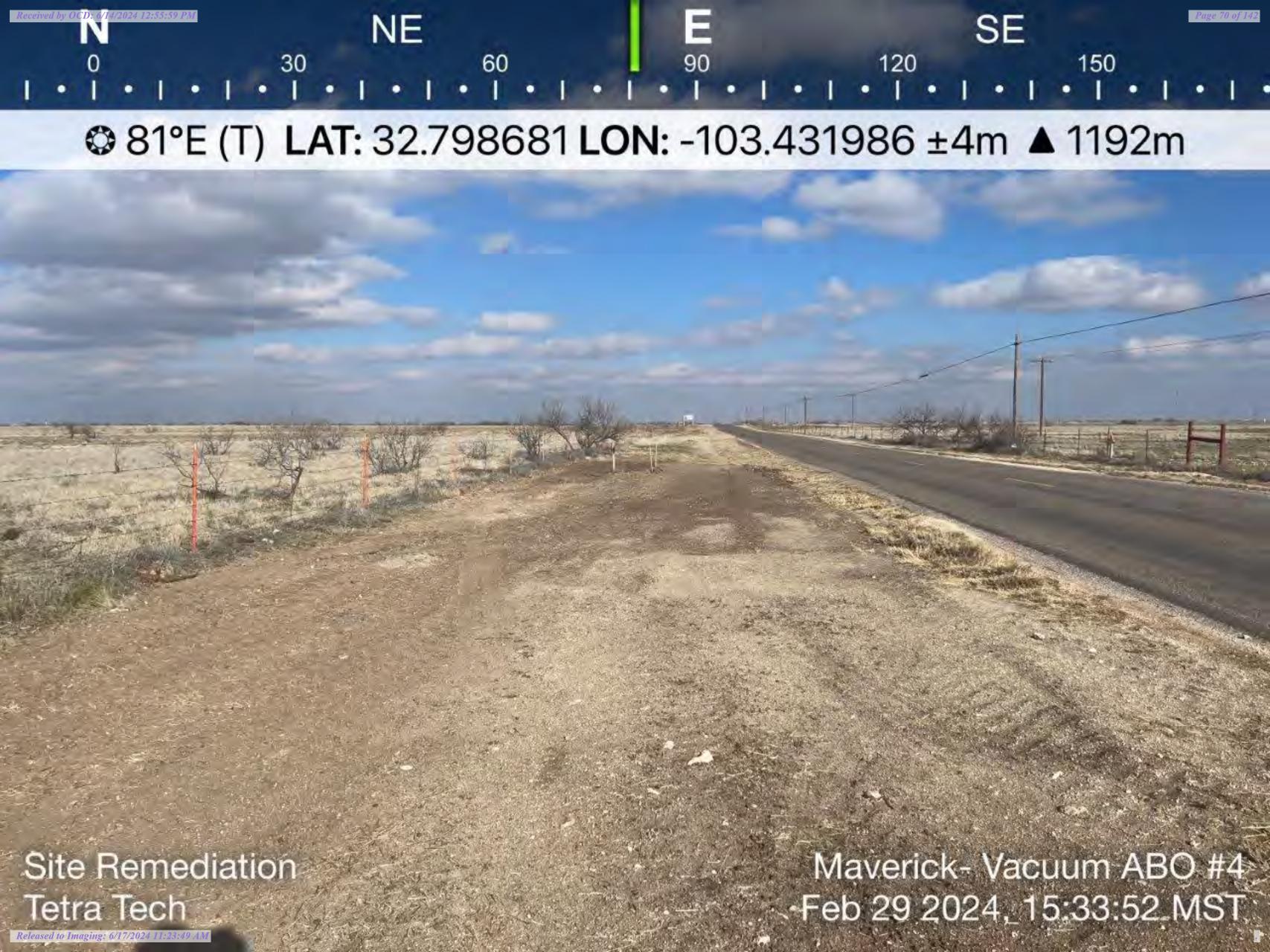






© 263°W (T) LAT: 32.798686 LON: -103.431715 ±4m ▲ 1195m







June 14, 2024

## **ATTACHMENT 5 – LABORATORY DATA**



February 19, 2024

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

RE: THROUGH - VACUUM ABO BATTERY #4

Enclosed are the results of analyses for samples received by the laboratory on 02/16/24 12:58.

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: 02/16/2024 Sampling Date: 02/16/2024

Reported: 02/19/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

## Sample ID: WS - 9 (H240759-01)

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	02/17/2024	ND	2.24	112	2.00	1.38	
Toluene*	<0.050	0.050	02/17/2024	ND	2.23	111	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/17/2024	ND	2.21	110	2.00	1.16	
Total Xylenes*	<0.150	0.150	02/17/2024	ND	6.64	111	6.00	1.04	
Total BTEX	<0.300	0.300	02/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 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	352	16.0	02/19/2024	ND	416	104	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	02/16/2024	ND	202	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	214	107	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/16/2024 Sampling Date: 02/16/2024

Reported: 02/19/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

### Sample ID: WS - 10 (H240759-02)

BTEX 8021B

DIEX GOZID	11197	ng .	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2024	ND	2.24	112	2.00	1.38	
Toluene*	<0.050	0.050	02/17/2024	ND	2.23	111	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/17/2024	ND	2.21	110	2.00	1.16	
Total Xylenes*	<0.150	0.150	02/17/2024	ND	6.64	111	6.00	1.04	
Total BTEX	<0.300	0.300	02/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	112	16.0	02/19/2024	ND	416	104	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	02/16/2024	ND	202	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	214	107	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: Sampling Type: Soil 02/19/2024

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: WS - 11 (H240759-03)

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	02/17/2024	ND	2.24	112	2.00	1.38	
Toluene*	<0.050	0.050	02/17/2024	ND	2.23	111	2.00	1.31	
Ethylbenzene*	<0.050	0.050	02/17/2024	ND	2.21	110	2.00	1.16	
Total Xylenes*	<0.150	0.150	02/17/2024	ND	6.64	111	6.00	1.04	
Total BTEX	<0.300	0.300	02/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 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	80.0	16.0	02/19/2024	ND	416	104	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	02/16/2024	ND	202	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	214	107	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: 02/19/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: MAVERICK - LEA CO NM

ma/ka

### Sample ID: WS - 12 (H240759-04)

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	02/16/2024	ND	2.07	104	2.00	5.37	
Toluene*	<0.050	0.050	02/16/2024	ND	2.17	108	2.00	5.61	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.14	107	2.00	5.80	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.70	112	6.00	7.50	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 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	80.0	16.0	02/19/2024	ND	416	104	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	02/16/2024	ND	202	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	214	107	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	108	% 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: 02/19/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

### Sample ID: WS - 13 (H240759-05)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	2.07	104	2.00	5.37	
Toluene*	<0.050	0.050	02/16/2024	ND	2.17	108	2.00	5.61	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.14	107	2.00	5.80	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.70	112	6.00	7.50	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 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	96.0	16.0	02/19/2024	ND	416	104	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	02/16/2024	ND	202	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	214	107	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: 02/19/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

### Sample ID: WS - 14 (H240759-06)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	2.07	104	2.00	5.37	
Toluene*	<0.050	0.050	02/16/2024	ND	2.17	108	2.00	5.61	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.14	107	2.00	5.80	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.70	112	6.00	7.50	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 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	96.0	16.0	02/19/2024	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	02/16/2024	ND	202	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	214	107	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: 02/19/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

### Sample ID: WS - 15 (H240759-07)

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	02/16/2024	ND	2.07	104	2.00	5.37	
Toluene*	<0.050	0.050	02/16/2024	ND	2.17	108	2.00	5.61	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.14	107	2.00	5.80	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.70	112	6.00	7.50	
Total BTEX	<0.300	0.300	02/16/2024	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	544	16.0	02/19/2024	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	02/16/2024	ND	202	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	214	107	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: 02/19/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

### Sample ID: WS - 16 (H240759-08)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	2.07	104	2.00	5.37	
Toluene*	<0.050	0.050	02/16/2024	ND	2.17	108	2.00	5.61	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.14	107	2.00	5.80	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.70	112	6.00	7.50	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 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	02/19/2024	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	02/16/2024	ND	202	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	214	107	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: Sampling Type: Soil 02/19/2024

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 12 (4.0') (H240759-09)

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	02/16/2024	ND	2.07	104	2.00	5.37	
Toluene*	<0.050	0.050	02/16/2024	ND	2.17	108	2.00	5.61	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.14	107	2.00	5.80	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.70	112	6.00	7.50	
Total BTEX	<0.300	0.300	02/16/2024	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	96.0	16.0	02/19/2024	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	02/17/2024	ND	202	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	02/17/2024	ND	214	107	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	02/17/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: 02/19/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 13 ( 4.0' ) (H240759-10)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	2.07	104	2.00	5.37	
Toluene*	<0.050	0.050	02/16/2024	ND	2.17	108	2.00	5.61	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.14	107	2.00	5.80	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.70	112	6.00	7.50	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 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	160	16.0	02/19/2024	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	02/17/2024	ND	202	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	02/17/2024	ND	214	107	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	02/17/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: 02/19/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 14 (4.0') (H240759-11)

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	02/16/2024	ND	2.07	104	2.00	5.37	
Toluene*	<0.050	0.050	02/16/2024	ND	2.17	108	2.00	5.61	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.14	107	2.00	5.80	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.70	112	6.00	7.50	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	112	16.0	02/19/2024	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	02/17/2024	ND	202	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	02/17/2024	ND	214	107	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	02/17/2024	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: 02/19/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 15 (4.0') (H240759-12)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2024	ND	2.07	104	2.00	5.37	
Toluene*	<0.050	0.050	02/16/2024	ND	2.17	108	2.00	5.61	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.14	107	2.00	5.80	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.70	112	6.00	7.50	
Total BTEX	<0.300	0.300	02/16/2024	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	272	16.0	02/19/2024	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	02/17/2024	ND	202	101	200	0.192	
DRO >C10-C28*	<10.0	10.0	02/17/2024	ND	214	107	200	0.782	
EXT DRO >C28-C36	<10.0	10.0	02/17/2024	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: Sampling Type: Soil 02/19/2024

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 16 (3.0') (H240759-13)

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	02/16/2024	ND	2.07	104	2.00	5.37	
Toluene*	<0.050	0.050	02/16/2024	ND	2.17	108	2.00	5.61	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.14	107	2.00	5.80	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.70	112	6.00	7.50	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 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	288	16.0	02/19/2024	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	02/16/2024	ND	196	97.8	200	1.29	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	203	102	200	5.85	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: 02/19/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 17 (3.0') (H240759-14)

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	02/16/2024	ND	2.07	104	2.00	5.37	
Toluene*	<0.050	0.050	02/16/2024	ND	2.17	108	2.00	5.61	
Ethylbenzene*	< 0.050	0.050	02/16/2024	ND	2.14	107	2.00	5.80	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.70	112	6.00	7.50	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	6 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	496	16.0	02/19/2024	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	02/16/2024	ND	196	97.8	200	1.29	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	203	102	200	5.85	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 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: 02/16/2024 Sampling Date: 02/16/2024

Reported: Sampling Type: Soil 02/19/2024

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 18 (3.0') (H240759-15)

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	02/16/2024	ND	2.07	104	2.00	5.37	
Toluene*	<0.050	0.050	02/16/2024	ND	2.17	108	2.00	5.61	
Ethylbenzene*	<0.050	0.050	02/16/2024	ND	2.14	107	2.00	5.80	
Total Xylenes*	<0.150	0.150	02/16/2024	ND	6.70	112	6.00	7.50	
Total BTEX	<0.300	0.300	02/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	480	16.0	02/19/2024	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	02/16/2024	ND	196	97.8	200	1.29	
DRO >C10-C28*	<10.0	10.0	02/16/2024	ND	203	102	200	5.85	
EXT DRO >C28-C36	<10.0	10.0	02/16/2024	ND					
Surrogate: 1-Chlorooctane	99.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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### **Notes and Definitions**

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

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Circle   Chuck Terhune   Chu	Page 9	Tetra Tech, Inc.			901 W Wall	Street, Ste 100 Texas 79701						
Simpler Signature:   Chuck Terhune   Chuck Terhune   Chuck Terhune   Chuck Terhune   Chuck Terhune   Chuck Isrhune@letratech.com   Sampler Signature:   Jorge Fernadez   Jorge Fernadez   Sampler Signature:   Jorge Fernadez   Jorge Fernadez   Sampler Signature:   Jorge Fernadez   Jorge	Client Name:				Fax (43)	2) 682-3946						
Chuck lefnung@lefralech.com	Chair Name.	Maverick Natural Resources	Site Manager:	Ch	uck Terh	une		$\dashv$		, l	Z	ANALYSIS
Attn: Chuck Terhune	Project Name:	Through-Vacuum ARO Rattery #4		281	1-755-89	65		Τ	0	e	9	r Specify
Attn: Chuck Terhune	Project Location:	and a second trace participy and		ick.terhune	e@tetrat			_	Ξ	_		
Attn: Chuck Terhune    Sampler Signature:   Jorge Fernadez	(county, state)	Lea County, NM			212C-MI			_				
Attn: Chuck Terhune  Attn: Chuck Terhune    Cardinal Labs	Invoice to:				l			L				
Cardinal Labs	Receiving I shoreton.	Attn: Chuck Terhune										
SAMPLE   DENTIFICATION   SAMPLING   SAMPLI	g anomaly.	Cardinal Labs	Sampler Signature		Jorge Fe	rnadez						
SAMPLE IDENTIFICATION   SAMPLING   MATRIX   PRESERVATIVE   SEZENTATIVE   SAMPLE IDENTIFICATION   SAMPLING   MATRIX   PRESERVATIVE   SEZENTATIVE   SAMPLE IDENTIFICATION   DATE:   Time:	Comments:											
SAMPLE   DENTIFICATION   SAMPLING   MATRIX   PRESERVATIVE   MATRIX   MATRIX   PRESERVATIVE   MATRIX   MATRIX   PRESERVATIVE   MATRIX   M	Include : (	Chris Straub Chris.Straub@tetratech.com						35)				
NS-9   2/16/2024   TIME   TIME   NS-10   AT   NS-10   AT   NS-10   AT   NS-10   AT   NS-11   AT   NS-12   AT   NS-12   AT   NS-13   AT   NS-14   AT   NS-15   AT   NS-16   A	4240 759		SAMPLING		$\neg$	PRESERVATIVE	-	BTEX				tiles
NS-9	LAB#	SAMPLE IDENTIFICATION	YEAR: 2023	Ц			_	1B 005 (E	С	als Ag	ules	
MS-9	( LABUSE )			ATER		NO <sub>3</sub>	_	EX 802	H 8270	LP Meta	LI VOIG	LP Sem
NS-10         2/16/2024         X         <	/ WS-9		T	V	Ĭ	IC	+	BT TP	PA	TC		-
VS-11			2/16/2024	×		×			_			
VS-11			2/16/2024	×		×			_			
VS-13         2/16/2024         X         <			2/16/2024	×		×						7
VS-13         2/16/2024         X         <			2/16/2024	×		×				7		-
VS-14         2/16/2024         X         <			2/16/2024	×		×		$\exists$		-		+
VS-16         2/16/2024         X         <	6 WS-14		2/16/2024	×		×						+
Date: Time: 12 5 8  Date: Time: 12 5 8  Date: Time: Received by: Date: Time: Sample Temperature  Date: Time: Received by: Date: Time: ####	1		2/16/2024	×		×			1	+		+
Date: Time: 12 5 8  Date: Time: Received by: Date: Time: Sample Temperature  Page 12 5 8  Date: Time: Received by: Date: Time: Human Market Sample Temperature  ###################################			2/16/2024	×		×						
Date: Time: 1258  Date: Time: Received by: Date: Time: LAB USE  Date: Time: Received by: Date: Time: H440				+							_	
Date: Time: Received by: Date: Time: Sample Temperature  Date: Time: Received by: Date: Time: ###0	elinguished by:	Time:	-	F	E				F			E
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Date: Time: Received by: Date: 1	1				Con	/		Sample 1	empera			X
	elinquished by:	Time:	Received by:		Date			-	1	_		Rush Charges

Client Name:   Maverick Natural Resources   She Manager:   Chuck Terhune	Maverick Natural Resources   Site Manager:   Chuck Terhune	Page 9	Tetra Tech, Inc.		901 N	W Wall Street, Ste Midland, Texas 7970	100	-							
Maverick Natural Resources   Site Manager: Chuck Terhune	Maverick Natural Resources	Client Name:				Fax (432) 682-3946									
Through-Vacuum ABO Battery #4   281-755-8985   28	### Chuck terhune   Project #:   212-MID-03372    ###################################		Maverick Natural Resources	Site Manager:	Chuck	Terhune		$\dashv$				ANA	ANALYS	ANALYSIS R	ANALYSIS REQUEST
County, state)   Lea County, NM   Project #:   212C-MD-03372	Attn: Chuck Terhune  Attn: Chuck Terhune  Cardinal Labs  Sampler Signature:  Cardinal Labs  Sampler Signature:  Sampler Signature:  Sampler Signature:  Jorge Fernadez  Sampler Signature:  Jorge Fernadez  Sampler Signature:  Jorge Fernadez  PRESERVATIVE WEETHOOD  RES-12 (4.07)  FS-12 (4.07)  FS-13 (4.07)  FS-14 (4.07)  FS-15 (3.07)  FS-16 (3.07)  Date: Time: / 2 5 8  Date: Time: / 2 5 8  Date: Time: Received by:  Date: Time: Received by: Date: Time: / 3 5 5 5 6 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	Project Name:	Battery	chuck	281-75				-	- 6	(Circle	_ @	le or S	le or Speci	le or Speci
Attn: Chuck Terhune   Cardinal Labs   Cardin	Attn: Chuck Terhune  Cardinal Labs  Include: Chris Straub@letratech.com  SAMPLE IDENTIFICATION  FS-12 (4.0')  FS-13 (4.0')  FS-14 (4.0')  FS-15 (3.0')  FS-16 (3.0')  FS-16 (3.0')  Date: Time: Received by: Date: Time: IDENTIFICATION  ATTRIX PRESERVATIVE WINTHOOD REPRODUCED TO THE Time: IDENTIFICATION  PRESERVATIVE OF TIME: IDENTIFICATION  PRESERVATIVE OF TIME: JOING THE WINTHOOD REPRODUCED TO THE TIME: IDENTIFICATION  PRESERVATIVE OF TIME: JOING THE WINTHOOD REPRODUCED TO THE TIME: IDENTIFICATION  PRESERVATIVE OF TIME: JOING THE TIME: JOING THE TIME: IDENTIFICATION  PRESERVATIVE OF TIME: JOING THE TIME: JOING THE TIME: IDENTIFICATION  PRESERVATIVE OF TIME: JOING THE TIME: JOING	(county, state)	Lea County, NM		242		,  =				7	,	,		7
Attn: Chuck Terhune  Cardinal Labs  Cardinal Labs  Comments:  Include : Chris Straub @tetratech.com    Cardinal Labs	Aftn: Chuck Terhune    Cardinal Labs	Invoice to:			1111	C-INID-0337									
Cardinal Labs   Lab	Cardinal Labs   Sampler Signature:   Jorge Fernadez	Receiving Laborator								0)					
Include : Chris Straub Chris. Straub@tetratech.com	SAMPLE   Dentification   SAMPLING   SAMPLING   SAMPLING   SAMPLE   SAMPLE   Dentification   SAMPLING   SAMPLE   Dentification   SAMPLING   SAMPLE   Dentification   SAMPLING   SAMPLE   Dentification   SAMPLING   SAMPLING   SAMPLE   Dentification   SAMPLING   SAMPLE   Dentification   SAMPLING   SAMPLE   Dentification   SAMPLING   SAMPLING   SAMPLE   Dentification   SAMPLING   SAMPLE	Vaccountif Panoletol		Sampler Signature:	Jora	Fernade		- 1	_	- MR	e Hg	e Hg	e Hg	e Hg	e Hg
Control   Straub Chris Straub @tetratech.com   SAMPLING   MATRIX   PRESERVATIVE   MATRIX   MATRIX   PRESERVATIVE   MATRIX   MATRIX   PRESERVATIVE   MATRIX	Include : Chris Straub@tetratech.com	Comments:	Cardinal Fano		9	ciliade			L		RO -	RO -	RO -	RO -	RO -
CAB #   SAMPLE IDENTIFICATION   PRESERVATIVE WETHOO   PRESERVATI	SAMPLE IDENTIFICATION   SAMPLING   MATRIX   PRESERVATIVE   MATRIX   MATRIX   PRESERVATIVE   MATRIX   MATRI	Inc	ude : Chris Straub Chris.Straub@tetratech.com						8260B	35)	35) RO - O	35) RO - O	35) RO - O Cd Cr P Cd Cr F	RO - O	RO - O
SAMPLE IDENTIFICATION   SAMP	SAMPLE IDENTIFICATION	_		SAMPLING	MATRIX		-		BTEX	BTEX xt to C	BTEX xt to C RO - D	BTEX ext to C RO - D As Ba ( As Ba	BTEX ext to C RO - D As Ba As Ba	BTEX xt to C RO - D As Ba As Ba tiles 0B / 62	BTEX xt to C RO - D As Ba As Ba tiles 0B / 62
FS-12 (4.0°)  FS-13 (4.0°)  FS-13 (4.0°)  FS-14 (4.0°)  FS-16 (3.0°)  FS-16 (3.0°)  Date: Time:   2 5 8   2 16/2024   x   x   x   x   x   x   x   x   x	FS-12 (4.0')  FS-13 (4.0')  FS-13 (4.0')  FS-14 (4.0')  FS-15 (3.0')  FS-16 (3.0')  Date: Time:   2 5 8   Date	LAB#	SAMPLE IDENTIFICATION	YEAR: 2023			INER	2 (2/1	1B	1B 005 (E	1B 005 (E M ( G C s Ag	1B 005 (E M ( G C s Ag als Ag	1B 005 (E M ( G C Is Ag als Ag tiles	M ( G C Is Ag itiles i Vola	M ( G C Is Ag itiles i Vola
FS-12 (4.0°)	FS-12 (4.0')  FS-13 (4.0')  FS-13 (4.0')  FS-14 (4.0')  FS-15 (4.0')  FS-15 (3.0')  FS-16 (3.0')  FS-17 (3.0')  Date: Time:   2 5 8   2 16 2024   X   X   X   X   X   X   X   X   X	( LABUSE )		00.		NO <sub>3</sub>	CONTA	TERE	EX 802		EX 802 H TX10 H 8015 H 8270 tal Metal	EX 802 H TX10 H 8015 H 8270	EX 802 H TX10 H 8015 H 8270 Ial Metal LP Meta LP Vola LP Sem	EX 802 H TX10 H 8015 H 8270 Ial Metal LP Meta LP Vola LP Sem I /MS Vol	EX 802 H TX10 H 8015 H 8270 Ial Metal LP Meta LP Vola LP Sem I /MS Vol /MS Ser B's 808
	FS-13 (4.0')  FS-14 (4.0')  FS-14 (4.0')  FS-15 (4.0')  FS-16 (3.0')  FS-16 (3.0')  Date: Time:   2 5 8   2/16/2024   x   x   x   x   x   x   x   x   x	9 FS-	2 (4.0')	T	_	Н	#	FI	BT	TP	TP PA To	TP PA To TC	TP PA To TC TC TC	TP PA To TC TC TC GC GC	TP PA To TC TC TC GC GC
FS-14 (4.0°)	FS-14 (4.0')  FS-15 (4.0')  FS-16 (3.0')  FS-17 (3.0')  Date: Time:   2 5 8   2/16/2024   x   x   x   x   x   x   x   x   x	-	3 (4.0')	2/16/2024	( )	× ×	+		×	$\pm$	$\pm$	$\pm$	$\pm$	$\pm$	$\pm$
3   FS-15 (4.0')	FS-16 (3.0°)  FS-16 (3.0°)  PS-17 (3.0°)  Date: Time:   2 5 8   2/16/2024   x   x   x   x   x   x   x   x   x	// FS-	4 (4.0')	2/16/2024	< >	( ×			×	$\pm$	$\pm$	$\pm$	$\pm$	$\pm$	$\pm$
3   FS-16 (3.0')   2/16/2024   X   X   X   X   X   X   X   X   X	FS-16 (3.0')  FS-17 (3.0')  Date: Time:   2 5 8  Date: Time:   2 5 8  Date: Time: Received by: Date: Time: Time: Date: Time: Received by: Date: Time: Date:		5 (4.0')	2/16/2024	< ;	: >	+		×	1	1	1	1	1	1
H FS-17 (3.0')	FS-17 (3.0')  Date: Time:   2 5 8  Date: Time:   2 5 8  Date: Time: Received by: Date: Time:  Date: Time: Received by: Date: Time:		6 (3.0')	2/16/2024	< >	< >			×	$\pm$	$\pm$	$\pm$	$\pm$	$\pm$	$\pm$
alinquished by:  Date: Time:   2 5 8  Date: Time:   2 5 8  Date: Time: Received by: Date: Time: Time: Received by: Date: Time: Date:	PS-18 (3.0')  Date: Time:   2 5 8  Date: Time: Received by: Date: Time:  Date: Time: Received by: Date: Time:	14 FS-	7 (3.0')	2/16/2024	×	<	+		1	1	1	1	1	1	1
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Date: Time: Received by: Date: Time:	Date: Time: Received by: Date: Time:  Date: Time: Received by: Date: Time:	Minguished by	16-29	Meuron	a R			×) 8	1	1	ONLY	ONLY	ONLY	ONLY	ONLY
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				Received by:			ne:		4	47:	47:	472 4	472 Rush Charges Authorize	4.7: Rush Char	U.T.: Rush Charges Authorized



February 20, 2024

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

RE: THROUGH - VACUUM ABO BATTERY #4

Enclosed are the results of analyses for samples received by the laboratory on 02/19/24 15:33.

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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

## Sample ID: FS - 1 (1.0) (H240793-01)

BTEX 8021B

	9,	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 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	02/20/2024	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.8	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 2 (1.0) (H240793-02)

BTEX 8021B

DIEX GOZID	11197	, kg	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 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	240	16.0	02/20/2024	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	70.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	65.3	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 3 (1.0) (H240793-03)

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	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 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	208	16.0	02/20/2024	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	75.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.3	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 4 (1.0) (H240793-04)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 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	448	16.0	02/20/2024	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	75.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.7	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 5 (1.0) (H240793-05)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 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	32.0	16.0	02/20/2024	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	76.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.7	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 6 (1.0) (H240793-06)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 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	464	16.0	02/20/2024	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	73.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.7	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 7 (1.0) (H240793-07)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 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	32.0	16.0	02/20/2024	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	69.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.9	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 8 (1.0) (H240793-08)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 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	224	16.0	02/20/2024	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	73.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.2	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

## Sample ID: FS - 9 (1.0) (H240793-09)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 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	02/20/2024	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	61.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	57.4	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

### Sample ID: FS - 10 (1.0) (H240793-10)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	384	16.0	02/20/2024	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	68.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.0	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

### Sample ID: WS - 1 (H240793-11)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 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	256	16.0	02/20/2024	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	68.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.1	% 49.1-14	8						

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### Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STRE

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

### Sample ID: WS - 2 (H240793-12)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 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	128	16.0	02/20/2024	ND	448	112	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	77.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.6	% 49.1-14	8						

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Celey & Keene



### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

### Sample ID: WS - 3 (H240793-13)

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	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 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	02/20/2024	ND	448	112	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	02/19/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	75.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.1	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

## Sample ID: WS - 4 (H240793-14)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 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	02/20/2024	ND	448	112	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	02/20/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/20/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/20/2024	ND					
Surrogate: 1-Chlorooctane	81.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.6	% 49.1-14	8						

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### Analytical Results For:

TETRA TECH
CHUCK TERHUNE

 $901~\mbox{WEST}$  WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

### Sample ID: WS - 5 (H240793-15)

BTEX 8021B

	9/	9	74141720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 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	02/20/2024	ND	448	112	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	02/20/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/20/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/20/2024	ND					
Surrogate: 1-Chlorooctane	74.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.5	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: Sampling Type: Soil 02/20/2024

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK - LEA CO NM

### Sample ID: WS - 6 (H240793-16)

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	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 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	02/20/2024	ND	448	112	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	02/20/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/20/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/20/2024	ND					
Surrogate: 1-Chlorooctane	82.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.5	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREE

 $901\ \text{WEST}\ \text{WALL}\ \text{STREET}$  , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

#### Sample ID: WS - 7 (H240793-17)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/19/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 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	02/20/2024	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	02/20/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/20/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/20/2024	ND					
Surrogate: 1-Chlorooctane	68.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	61.1	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

Sample ID: WS - 8 (H240793-18)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/20/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/20/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/20/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 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	144	16.0	02/20/2024	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	02/20/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/20/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/20/2024	ND					
Surrogate: 1-Chlorooctane	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.4	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

#### Sample ID: WS - 17 (H240793-19)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/20/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/20/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/20/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 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	240	16.0	02/20/2024	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	02/20/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/20/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	<10.0	10.0	02/20/2024	ND					
Surrogate: 1-Chlorooctane	72.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.8	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: MAVERICK - LEA CO NM

ma/ka

#### Sample ID: WS - 18 (H240793-20)

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	02/20/2024	ND	2.16	108	2.00	6.86	
Toluene*	<0.050	0.050	02/20/2024	ND	2.13	107	2.00	7.11	
Ethylbenzene*	<0.050	0.050	02/20/2024	ND	2.10	105	2.00	6.97	
Total Xylenes*	<0.150	0.150	02/20/2024	ND	6.15	103	6.00	6.76	
Total BTEX	<0.300	0.300	02/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 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	32.0	16.0	02/20/2024	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	02/20/2024	ND	210	105	200	1.09	
DRO >C10-C28*	<10.0	10.0	02/20/2024	ND	202	101	200	4.92	
EXT DRO >C28-C36	30.3	10.0	02/20/2024	ND					
Surrogate: 1-Chlorooctane	76.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.0	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

#### Sample ID: WS - 19 (H240793-21)

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	02/19/2024	ND	2.02	101	2.00	4.93	
Toluene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	02/20/2024	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	02/19/2024	ND	189	94.4	200	0.0450	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	184	92.0	200	0.591	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	78.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.7	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

#### Sample ID: WS - 20 (H240793-22)

BTEX 8021B

	9/	9	7.1.4.7.2						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.02	101	2.00	4.93	
Toluene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	02/19/2024	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	02/20/2024	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	02/19/2024	ND	189	94.4	200	0.0450	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	184	92.0	200	0.591	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	82.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.0	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

#### Sample ID: WS - 21 (H240793-23)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.02	101	2.00	4.93	
Toluene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	02/20/2024	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	02/19/2024	ND	189	94.4	200	0.0450	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	184	92.0	200	0.591	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.3	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: MAVERICK - LEA CO NM

ma/ka

#### Sample ID: WS - 22 (H240793-24)

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	02/19/2024	ND	2.02	101	2.00	4.93	
Toluene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 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	32.0	16.0	02/20/2024	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	02/19/2024	ND	189	94.4	200	0.0450	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	184	92.0	200	0.591	
EXT DRO >C28-C36	17.8	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

#### Sample ID: FS - 19 (3.0) (H240793-25)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.02	101	2.00	4.93	
Toluene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	1840	16.0	02/20/2024	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	02/19/2024	ND	189	94.4	200	0.0450	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	184	92.0	200	0.591	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.9	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

#### Sample ID: FS - 20 (3.0) (H240793-26)

BTEX 8021B

	9/	9	7.1.4.7.2						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.02	101	2.00	4.93	
Toluene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	112	16.0	02/20/2024	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	02/19/2024	ND	189	94.4	200	0.0450	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	184	92.0	200	0.591	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.8	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

#### Sample ID: FS - 21 (1.0) (H240793-27)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.02	101	2.00	4.93	
Toluene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	2480	16.0	02/20/2024	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	02/19/2024	ND	189	94.4	200	0.0450	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	184	92.0	200	0.591	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	88.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

#### Sample ID: FS - 22 (1.0) (H240793-28)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.02	101	2.00	4.93	
Toluene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	144	16.0	02/20/2024	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	02/19/2024	ND	189	94.4	200	0.0450	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	184	92.0	200	0.591	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	77.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.9	% 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

#### Sample ID: FS - 23 (1.0) (H240793-29)

BTEX 8021B

DIEX GOZID	ıııg,	K9	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2024	ND	2.02	101	2.00	4.93	
Toluene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	02/20/2024	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	02/19/2024	ND	189	94.4	200	0.0450	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	184	92.0	200	0.591	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	75.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.7	% 49.1-14	8						

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Celeg D. Freene



#### Analytical Results For:

TETRA TECH CHUCK TERHUNE

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/20/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

#### Sample ID: FS - 24 (1.0) (H240793-30)

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	02/19/2024	ND	2.02	101	2.00	4.93	
Toluene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/19/2024	ND	2.10	105	2.00	5.81	
Total Xylenes*	<0.150	0.150	02/19/2024	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	02/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 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	02/20/2024	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	02/19/2024	ND	189	94.4	200	0.0450	
DRO >C10-C28*	<10.0	10.0	02/19/2024	ND	184	92.0	200	0.591	
EXT DRO >C28-C36	<10.0	10.0	02/19/2024	ND					
Surrogate: 1-Chlorooctane	80.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.7	% 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

Hold



February 23, 2024

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

RE: THROUGH - VACUUM ABO BATTERY #4

Enclosed are the results of analyses for samples received by the laboratory on 02/22/24 11:26.

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. Keene

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: 02/22/2024 Sampling Date: 02/22/2024

Reported: 02/23/2024 Sampling Type: Soil

Project Name: THROUGH - VACUUM ABO BATTERY #4 Sampling Condition: Cool & Intact
Project Number: 212C-MD - 03372 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MAVERICK - LEA CO NM

mg/kg

#### Sample ID: FS - 21 (4.0') (H240874-01)

BTEX 8021B

BIEX GOETS	9/	119	Andryzo	u 2 y : 3 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2024	ND	2.14	107	2.00	4.65	
Toluene*	<0.050	0.050	02/22/2024	ND	2.12	106	2.00	4.74	
Ethylbenzene*	<0.050	0.050	02/22/2024	ND	2.08	104	2.00	4.82	
Total Xylenes*	<0.150	0.150	02/22/2024	ND	6.08	101	6.00	4.70	
Total BTEX	<0.300	0.300	02/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 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	416	16.0	02/23/2024	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	02/22/2024	ND	208	104	200	2.40	
DRO >C10-C28*	<10.0	10.0	02/22/2024	ND	202	101	200	7.69	
EXT DRO >C28-C36	<10.0	10.0	02/22/2024	ND					
Surrogate: 1-Chlorooctane	84.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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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  $6^{\circ}\text{C}$ 

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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

Remediation Report and Closure Request Maverick Permian, LLC Vacuum Abo Battery #4 Trunkline Releases Incident IDs: nJXK1616547061 & nRM2003534693 June 14, 2024

# **ATTACHMENT 6 – NMSLO SEED MIXTURE**

# **NMSLO Seed Mix**

# Loamy (L)

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

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	$\mathbf{F}$
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	С	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



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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

Action 354285

#### **QUESTIONS**

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	354285
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nJXK1616547061
Incident Name	NJXK1616547061 ABO 4 @ 30-025-08526
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-08526] VACUUM ABO UNIT #004

Location of Release Source					
Please answer all the questions in this group.					
Site Name	ABO 4				
Date Release Discovered	06/11/2016				
Surface Owner	State				

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 38 BBL   Recovered: 25 BBL   Lost: 13 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.

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QUESTIONS, Page 2

Action 354285

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

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	354285
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	· · · · · · · · · · · · · · · · · · ·
Nature and Volume of Release (continued)	

# Nature and Volume of Release (continued) Is this a gas only submission (i.e. only significant Mcf values reported) Was this a major release as defined by Subsection A of 19.15.29.7 NMAC Reasons why this would be considered a submission for a notification of a major release From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more. With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped

True

The impacted area has been secured to protect human health and the environment

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices

All free liquids and recoverable materials have been removed and managed appropriately

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.

Name: Chuck Terhune
Title: Program Manager
Email: chuck.terhune@tetratech.com
Date: 06/14/2024

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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 3

Action 354285

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

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	354285
	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	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provide	ed to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamin	nation associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	4650	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	236	
GRO+DRO (EPA SW-846 Method 8015M)	102	
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1	
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes comp which includes the anticipated timelines for beginning and completing the remediation.	pleted 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	02/09/2024	
On what date will (or did) the final sampling or liner inspection occur	02/22/2024	
On what date will (or was) the remediation complete(d)	02/23/2024	
What is the estimated surface area (in square feet) that will be reclaimed	1325	
What is the estimated volume (in cubic yards) that will be reclaimed	110	
What is the estimated surface area (in square feet) that will be remediated	3700	
What is the estimated volume (in cubic yards) that will be remediated	331	
These estimated dates and measurements are recognized to be the best guess or calculation	at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted	d 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.

District I

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QUESTIONS, Page 4

Action 354285

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

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	354285
	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 Title: Program Manager Email: chuck.terhune@tetratech.com

Date: 06/14/2024

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 354285

**QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	354285
	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

District II

N French Dr., Hobbs, NM 88240

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District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District 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 354285

**QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	354285
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	347431
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/22/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

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	3700	
What was the total volume (cubic yards) remediated	331	
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	1325	
What was the total volume (in cubic yards) reclaimed	110	
Summarize any additional remediation activities not included by answers (above)	Submitted Remediation Report contains all details	

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
Title: Program Manager
Email: chuck.terhune@tetratech.com
Date: 06/14/2024

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QUESTIONS, Page 7

Action 354285

**QUESTIONS** (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	354285
	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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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 354285

#### **CONDITIONS**

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	354285
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved.	6/17/2024
bhall	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.	6/17/2024
bhall	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.	6/17/2024
bhall	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. Variance request is approved. Ensure proper sampling notifications are given in future remediation projects.	6/17/2024