

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**.

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:

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

Closure Criteria for Soils Impacted by a Release

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:

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

Reclamation Requirements

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

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 offsite 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.

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 ft² in the bar ditch and on the battery pad. "Confirmation samples should be collected every 200 ft² 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

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

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.

Page 8 of 142

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

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 <u>Charles.Terhune@tetratech.com</u> 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

June 14, 2024

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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June 14, 2024

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

FIGURES



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June 14, 2024

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

TABLES





59 PM 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

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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 ²											TPH ³					
		Sample Depth	Chloride	• ¹											GRO		DRO		ORO		Total TPH
Sample ID	Sample Date				Benzene	;	Toluene	9	Ethylbenze	ne	Total Xyle	nes	Total BTEX		C ₆ - C ₁₀		> C ₁₀ - C	28	> C ₂₈ - 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 Requ	uiromonte (10.15.20		600	•	10	×	mg/kg	Q	iiig/kg	×	mg/kg	<u>a</u>	50	•	iiig/kg	æ	mg/kg	<u>a</u>	mg/kg	<u>a</u>	100
Reclamation Requ	•	,					0.0017		10.00266	_	0.000059	- 1		÷	0.0524		1.00		2.74		
l -	10/13/2020	0 - 1	642	-	< 0.00106		0.0017	J	< 0.00266	_	0.000958	J	0.00266	+	0.0534	J	1.89	J	3.74	J	5.68 1.81
l -	10/13/2020	2-3	340	-	< 0.00107		< 0.00537		< 0.00268	_	< 0.00698		-	+	< 0.104		< 4.15		1.81	J	
BH-1	10/13/2020	<u>4 - 5</u> 6 - 7	365 176	-	< 0.00115		< 0.00573		< 0.00287	_	< 0.00745		-	+	0.0443	J	< 4.29		< 4.29		0.0443
	10/13/2020 10/13/2020	9 - 10	116	-	< 0.00111		< 0.00556 < 0.00535		< 0.00278 < 0.00268	_	< 0.00723 < 0.00696		-	+	< 0.106		< 4.23 < 4.14		< 4.23		0.0672
1 F	10/13/2020	9 - 10 14 - 15	114	-	< 0.00107 < 0.00110		< 0.00535		< 0.00268	_	< 0.00696		-	+	0.0672 < 0.105	J	< 4.14		< 4.14 < 4.20		0.0672
1 F	10/13/2020	14 - 15	172		< 0.00110		< 0.00550		< 0.00275	-	< 0.00713		-	+	0.0502		< 4.20		< 4.20		0.0502
┟────┼	10/13/2020	0 - 1	1,000		< 0.00119		< 0.00594		< 0.00297	_	< 0.00772			+	< 0.102	J	13.3		30.2		43.5
1 F	10/13/2020	2 - 3	1,000	-	< 0.00103		< 0.00517		< 0.00239	-	< 0.00072		-	+	0.0245		3.11		4.28		7.41
1 F	10/13/2020	4 - 5	346		< 0.00109		< 0.00543	-	< 0.00271	-	< 0.00703		-	╋	0.0243	J	< 4.11	J	4.20 < 4.11		0.0313
1 F	10/13/2020	6 - 7	340	-	< 0.00103		< 0.00520		< 0.00203	_	< 0.00084		-	+	< 0.104	J	< 4.11		< 4.11		0:0313
1 F	10/13/2020	9 - 10	114		0.000544		< 0.00543		< 0.00271	_	< 0.00706		0.000544	╋	< 0.104		< 4.17	\vdash	< 4.17		-
BH-2	10/13/2020	14 - 15	986		< 0.000544	J	< 0.00350		< 0.00275	_	< 0.00713		-	╋	< 0.105		< 5.00	\vdash	< 5.00		-
	10/13/2020	19 - 20	471		< 0.00131		< 0.00733		< 0.00313	-	< 0.00978		_	+	0.0253	1	4.45		3.26		7.74
1 F	10/13/2020	24 - 25	310		< 0.00123		< 0.00020	-	< 0.00277		< 0.00721			╋	< 0.105	5	2.38		< 4.22	5	2.38
1 F	10/13/2020	29 - 30	282		< 0.00109		< 0.00545	-	< 0.00277		< 0.00721			╋	< 0.103		1.93		< 4.18		1.93
1 F	10/13/2020	34 - 35	239		< 0.00103		< 0.00540		< 0.00272		< 0.00703			╈	< 0.104		3.03		< 4.16		3.03
1 F	10/13/2020	39 - 40	252		< 0.00108		< 0.00542	-	< 0.00270		0.00352	1	0.00352	╋	0.0303	ΒJ	2.53			ΒJ	3.68
 +	10/13/2020	0 - 1	4,650		0.000547		< 0.00526		0.000911	-	0.00341	- J	0.00487	╈	0.0568	BJ	99.7	-	136		236
1 F	10/13/2020	2 - 3	1,530	-	< 0.00106		< 0.00520		< 0.00266	Ĵ	< 0.00691	5	-	+	0.0346	BJ	22.5		28.4		50.9
i F	10/13/2020	4 - 5	77		< 0.00103		< 0.00515		< 0.00257	_	< 0.00669		-		0.0336	ΒJ	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	ΒJ	< 4.29		0.998	ΒJ	1.03
	10/13/2020	9 - 10	66.2	ا ا	< 0.00112		< 0.00558		< 0.00279	_	< 0.00726		-		0.0236	ΒJ	< 4.23		1.68	ΒJ	1.7
1 F	10/13/2020	14 - 15	93.6		< 0.00112		< 0.00588		< 0.00294	_	< 0.00765		-		0.0200	ΒJ	< 4.35		0.957	ΒJ	0.985
1 F	10/13/2020	19 - 20	55.3		< 0.00111		< 0.00554		< 0.00277		< 0.00720			╈		ΒJ	2.73			ΒJ	
BH-5	10/13/2020	0 - 1	< 20.3		0.000539		0.00144		< 0.00256		< 0.00667		0.00198	╈		ΒJ	8.01	Ť	22.5		30.6
BH-6	10/13/2020	0 - 1	35.8		0.0011	Ť	0.00274		< 0.00258		0.00134	.l	0.00518		0.0348	ΒJ	4.54		17.6		22.2
Dirio	10/14/2020	0 - 1	20.8		< 0.00104		< 0.00518	Ť	< 0.00259		< 0.00673		-			ΒJ	18.9		188		207
i F	10/14/2020	2 - 3	16.5	IJ	< 0.00106		< 0.00532		< 0.00266		< 0.00691		-		0.032	ΒJ	4.01	J	28.4		32.4
BH-7	10/14/2020	4 - 5	96.9	Ť	< 0.00107		< 0.00535		< 0.00268		< 0.00696		-			ΒJ	< 4.14	Ť		ΒJ	
	10/14/2020	6 - 7	320		< 0.00114		< 0.00568		< 0.00284		< 0.00738		-		< 0.107		< 4.27		0.364	ΒJ	
l f	10/14/2020	9 - 10	341		< 0.00112		< 0.00559	1	< 0.00279		< 0.00727		-	╋	0.0553	ΒJ	< 4.23		< 4.23		0.0553
†	10/14/2020	0 - 1	36.3		< 0.00106		< 0.00528	1	< 0.00264		< 0.00686		-	╋		ΒJ	< 4.11			ΒJ	1.39
ВН-9	10/14/2020	2 - 3	30.9	\square	< 0.00110		< 0.00549	1	< 0.00274		< 0.00714		-	╋	0.025	ΒJ	< 4.20			ΒJ	
í f	10/14/2020	4 - 5	31.7	1	< 0.00110		< 0.00552	1	< 0.00276		< 0.00718		-	╋		ΒJ	< 4.21			ΒJ	
†	10/14/2020	0 - 1	47.4	1	< 0.00104		< 0.00520	1	< 0.00260		< 0.00675		-	ϯ		ΒJ	2.34	J	8.13		10.5
í f	10/14/2020	2 - 3	37.5	t –	< 0.00105		< 0.00524	1	< 0.00262		< 0.00681		-	ϯ	0.0264	ΒJ	< 4.10		1.34	ΒJ	1.37
BH-10	10/14/2020	4 - 5	113	1	< 0.00111		< 0.00553	1	< 0.00277		< 0.00719		-	ϯ	< 0.105		< 4.21			ВJ	
í f	10/14/2020	6 - 7	80.6	1	< 0.00117		< 0.00583	1	< 0.00291		< 0.00757		-	T		ВJ	< 4.33		0.425	ВJ	
í ľ	10/14/2020	9 - 10	34.8		< 0.00111		< 0.00554	1	< 0.00277		< 0.00720		-	T	0.0522	ΒJ	< 4.21		0.455	ΒJ	
	10/13/2020	0 - 1	44.9		0.000971		< 0.00511		< 0.00255		< 0.00664		0.000971	T	0.0302	ΒJ	9.69		29.5		39.2
BH-11	10/13/2020	2 - 3	163		0.00106		0.00134	J	< 0.00258		< 0.00672		0.0024	T	0.0289	ΒJ	10.8		37.8		48.6
	10/13/2020	0 - 1	12.4	J	< 0.00109		< 0.00544	1	< 0.00272		0.00292	ΒJ		T		ΒJ	5.31		20.1		25.5
BH-12 -	10/13/2020	2 - 3	< 21.2		< 0.00112		< 0.00561	1	< 0.00281		0.00224	ΒJ		T	0.0307	ΒJ	8.86		25.1		34
	10/13/2020	0 - 1	24.9		< 0.00107		0.00166	J	0.000877	J	0.00321	ΒJ	0.00575	T	0.0541	ΒJ	10.9		38.3		49.3
BH-13	10/13/2020	2 - 3	55.6		< 0.00113		< 0.00565		< 0.00283		0.00101	ΒJ	0.00101	T	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 ²						TPH ³						
Semale ID	Somple Date	Sample Depth	Chloride	e ¹	Ponzono		Teluene		Ethylhonzono		Total Vula	Total Vulance		Total BTEX			DRO		ORO		Total TPH
Sample ID	Sample Date				Benzene		Toluene		Ethylbenzene		Total Aylenes		TOLAIDIEA		C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(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 Requ	uirements (19.15.2	9 NMAC)	600		10								50								100
BH-14	10/13/2020	0 - 1	219		< 0.00110		< 0.00552		< 0.00276		0.00127	ΒJ	0.00127		0.0447	J	9.1		21.7		30.8
DH-14	10/13/2020	2 - 3	452		< 0.00113		< 0.00566		< 0.00283		0.00736	ΒJ	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		-
	2/17/2022	6 - 7	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
	2/17/2022	0 - 1	528		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
T-2	2/17/2022	2 - 3	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
1-2	2/17/2022	4 - 5	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
	2/17/2022	6 - 7	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
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
1-4	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 TPH: Total Petroleum Hydrocarbons GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics 1: Method 300.0

2: Method 8260B

3: Method 8015M

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

B: The same analyte is found in the associated blank

J: The reported value is an estimate

Received by OCD: 6/14/2024 12:55:59 PM



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 ²									TPH ³	
	Orana la Data	Sample Depth	Chloride	e ¹	D	-	Talaan	-							GRO		DRO	EXT DRO	Total TPH
Sample ID	Sample Date				Benzen	е	Toluene	e	Ethylbenze	ene	Total Xyle	nes	Total BTE	=X	C ₆ - C ₁₀		> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg C	e 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	-	-					-				Locatior	n ID	skipped duri	ing s	ampling				-
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		<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		<0.150		<0.300		<10.0		<10.0	<10.0	-
WS - 8	2/19/2024	0.0 - 1.0	144		<0.050		<0.050		<0.050		<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		<0.150		<0.300		<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		<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		<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 ²											TPH ³						
Sample ID	Sample Date	Sample Depth	Chlorid	le ¹	Benzene		Toluene E		Ethylbonz	ono	Total Xylo	Total Xylenes		Total BTEX			DRO		EXT DRO		Total TPH	
Sample ID	Sample Date				Denzen	Delizene		Toluene		Emyiberizerie				_^	C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Req	uirements (19.15.29	NMAC)	600		10								50								100	
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 OrganicsDRO: Diesel Range OrganicsORO: 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

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

ATTACHMENT 1 – SITE CHARACTERIZATION DATA

National Flood Hazard Layer FIRMette



Legend

nd

Page 27 of 142



Basemap Imagery Source: USGS National Map 2023

OCD Well Locations



Released to Imaging: 6/17/2024 11:23:49 AM

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

New Mexico Oil Conservation Division

U.S. Fish and Wildlife Service

National Wetlands Inventory

Vacuum Abo Battery #4 Trunkline Releases

Page 29 of 142



May 22, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

Lake Other Riverine

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

National Wetlands Inventory (NWI) This page was produced by the NWI mapper



(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)	•	•					2=NE : t to lar	3=SW 4 gest)) AD83 UTM in me	ters)	(1	n feet)	
POD Number	POD Sub- Code basin Co	ountv	Q 64 1	_	-	Sec 1	Twe	Rna		x	Y	Distance		•	Water Column
								•	0.400		-				
L 04859	L	LE	4	4	4	27	175	35E	6462	258	3630135* 🌍	323	145	85	60
L 04881	L	LE		1	3	26	17S	35E	6465	556	3630644* 🌍	620	137	50	87
											Avera	ge Depth to	Water:	67	feet
												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.

5/22/24 1:41 PM

Received by OCD: 6/14/2024 12:55:59 PM



Released to Imaging: 6/17/2024 11:23:49 AM

Web Soil Survey National Cooperative Soil Survey



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%
ки	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%



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

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

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

Science for a changing world

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Site Information	~	United States	~	GO

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- Explore the NEW USGS National Water Dashboard 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 V GO

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	Begin Date	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 <u>New Mexico Water Science Center Water-Data Inquiries</u>

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

Accessibility FOIA Privacy Policies and Notices

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

USA.gov

Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324745103251501

Page Contact Information: <u>New Mexico Water Data Support Team</u> Page Last Modified: 2024-05-22 15:44:53 EDT 0.28 0.28 caww01
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National Water Information System: Web Interface

USGS Water Resources

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

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Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list = • 324745103251501

Minimum number of levels = 1

Date range = 01/01/2000 . 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
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 for mats
Table of data
Tab-separated data
Graph of data
Reselect period



Received by OCD: 6/14/2024 12:55:59 PM

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

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

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team Page Last Modified: 2024-05-22 15:46:45 EDT 0.75 0.49 nadww01



June 14, 2024

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

ATTACHMENT 2 – BORING LOGS

212	C-MI	D-02	2110	T	t	ETRA	TEC	H				L(DG OF BORING BH-1			Page 1 of 1
Proje	ect N	ame	· Vac	uum Ak	oo B	atter	y #4	Trur	kline	e Rel	ease					
Bore	hole	Loc	ation:	GPS Coo	rdinat	es: 32	.7981	54°, -1	03.43	4782°		Surface Elevation:	3920 ft			
Bore	hole	Nur	nber:	BH-1						E	Boreh Diame	ole eter (in.): 8	Date Started: 10/13/2020	Date Fi	nishe	d: 10/13/2020
			QÊ	(F	Y (%)	NT (%)			EX			N N	ATER LEVEL OBSERVATIO		<u>¥</u> c	DRY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	HIT CHLORIDE FIELD SCREENING (ppm)	U VOC FIELD	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)		DLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG		RIAL DESCRIPTION		DEPTH (ft)	REMARKS
	\mathbb{Z}	X										FILL MATEI	RIAL; White, poorly cemented, o staining.	, with	1	BH-1 (0'-1')
			308									-SM- SILTY S with heavy gra	AND; White, heavily cemented vel, with no odor, with no stain ed caliche and calcrete.	l, ing.		BH-1 (2'-3') BH-1 (4'-5')
_		X										with moderate	AND; White, heavily cemented gravel, with no odor, with no s ed caliche and calcrete.	l, taining.	5.5 	BH-1 (6'-7')
		X	143													BH-1 (9'-10') BH-1 (14'-15')
 20		X	204									with heavy gra	AND; White, moderately ceme vel, with no odor, with no stain ed caliche and calcrete.	nted, ing.	 	BH-1 (19'-20')
Samı Type	pler s:		Split Spoon Shelby Bulk Sample			e Line Shear nia	r T	Opera ypes	Muc Rota	t ary tinuou nt Aug	s er	Hand Auger Note	s: ace elevation is an estimated h. Laboratory analytical sampl wn in the "Remarks" column.	value bas le IDs and	sed o d inte	n Google rvals are

212	C-MD	-02110	J	E	ETRA	ATEC	Н					LOG OF BORING B	SH-2		Page 1 of 2
Proje	ct Na	_{me:} Vac	uum Ak	oo B	atter	y #4	Trun	ıkline	e Rel	ease					•
Borel	hole L	ocation:	GPS Coo	rdinat	es: 32	.7985	12°, -1	03.43	4283°		Surface Elevation	on: 3917 ft			
Borel	hole N	Number: E	3H-2						E		ole 8 ter (in.):	Date Started: 10/13/20)20 Date	Finishe	d: 10/13/2020
				(%)	(%)						While Drilling	WATER LEVEL OBSEF <u> ⊻ DRY</u> ft Upon Comple		<u>¥</u> [DRY_ft
	ш	(mdd	(mqq	ERY (TENT	()			(%		Remarks:				
DEPTH (ft)	OPERATION TYPE	SAMIFLE THLORIDE FIELD SCREENING (ppm)	U VOC FIELD CREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)			MINUS NO. 200 (%)	GRAPHIC LOG	MAT	ERIAL DESCRIPTION		DEPTH (ft)	REMARKS
	22										FILL MAT	ERIAL; White, poorly cem n no staining.	nented, with	1	BH-2 (0'-1')
											-SM- SILTY	SAND; White, heavily cer ravel, with no odor, with n	nented, o staining.		
_	$\left \left\langle \right\rangle\right $	4									With interbe	dded caliche and calcrete.		-	BH-2 (2'-3')
_	$\left \right\rangle$													-	
5	SY													5.5	BH-2 (4'-5')
_	\rangle										-SM- SILTY with modera	SAND; White, heavily cer te gravel, with no odor, with	nented, th no staining.	-	BH-2 (6'-7')
_	$\rangle\rangle$	488									With interbe	dded caliche and calcrete.		-	5112 (0 7)
_	$\left\langle \right\rangle$													-	
_ 10	$\left \right\rangle$	360												-	BH-2 (9'-10')
10	$\left<\right>$	300												-	
	$\langle \rangle$														
	$\langle \langle $														
	$\langle \langle L \rangle$														
15	$\langle \rangle \rangle$	604													BH-2 (14'-15')
_	$\left\{ \right\}$														
_	$\left \right\rangle$													17	
_	$\left \right\rangle$										with heavy g	SAND; White, moderately ravel, with no odor, with n	/ cemented, o staining.		
_	\rangle										With interbe	dded caliche and calcrete.		-	
20	$\rangle\rangle$	843												-	BH-2 (19'-20')
_	$\rangle\rangle$													-	
_	$\rangle\rangle$										-SM- SILTY	SAND; Tan, poorly ceme	nted, with	22	
_	$\langle \rangle$										no gravel, w	ith no odor, with no stainin	ıg.	-	
- 	$\langle k \rangle$										With interbe	dded caliche and calcrete.		-	BH-2 (24'-25')
25 Samı Type	oler	541 Split Spoon		Acetat	e Line	r Ç	Dpera Types	tion			Hand Auger N	otes:			(
гуре	э.	Shelby			Shear			Muc Rota	l arv	$\left \right\rangle$	Air Botary S	urface elevation is an esti	mated value b	ased o	n Google
		Bulk Sample		Califor	nia				tinuou ht Auge	s er	Direct Push S	arth. Laboratory analytical nown in the "Remarks" col	lumn.	nu mte	i vais di e
		Grab Sample	□	est P	it		111111 111	. Was Rota	sh	\square	Core Barrel				

Logger: Joe Tyler Drilling Equipment: Air Rotary Driller: Scarborough Drilling Released to Imaging: 6/17/2024 11:23:49 AM

	02110	T	= T	ETRA	ATEC	CH				LOG OF BORING BH-2	Page 2 of 2
Project Nam	ne: Va	cuum Ab	o Ba	atter	y #4	Trur	kline	Rele	ease		
Borehole Lo	ocation:	GPS Coor	rdinate	es: 32	.7985	12°, -1	03.43	4283°		Surface Elevation: 3917 ft	
Borehole Nu	umber:	BH-2						B	oreho	le Ber (in.): 8 Date Started: 10/13/2020 Date Finis	ned: 10/13/2020
	D D	(mq	RY (%)	ENT (%)			DEX			WATER LEVEL OBSERVATIONS	DRY_ft
DEPTH (ft) OPERATION TYPE SAMPLE	HIT SCREENING (ppm)	UNCC FIELD	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)		D PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
	490										BH-2 (29'-30')
85 ((X	401									Bottom of borehole at 35.0 feet.	BH-2 (34'-35')
	Split Spoor Shelby Bulk Samp The Grab Samp		cetate /ane S califorr	nia	r C		Mud Rota	ary tinuous nt Auge sh		Hand Auger Notes: Air Rotary Surface elevation is an estimated value based Earth. Laboratory analytical sample IDs and in shown in the "Remarks" column. Direct Push Shown in the "Remarks" column.	on Google tervals are

0/13/2020 Date DBSERVATIONS a Completion of Drilling PTION orly cemented, with vily cemented, , with no staining. alcrete.		ed: 10/13/2020 DRY_ft REMARKS
DBSERVATIONS a Completion of Drilling PTION orly cemented, with vily cemented, , with no staining.] ¥ DEPTH (ft)	DRY_ft
PTION Privemented, with vily cemented, , with no staining.	DEPTH (ft)	
vily cemented, with vily cemented, , with no staining.		REMARKS
vily cemented, , with no staining.	1	
, with no staining.	\top	BH-3 (0'-1')
-		
		BH-3 (2'-3')
		BH-3 (4'-5')
vily cemented, dor, with no staining.	-	BH-3 (6'-7')
alcrete.	F	
		BH-3 (9'-10')
	-	
	-	
	-	BH-3 (14'-15')
	-	DI -5 (14 - 15)
	-	
derately cemented, , with no staining.	/	
alcrete.	-	
t 20.0 feet.	20	BH-3 (19'-20')
	erately cemented, with no staining. llcrete.	

NAC ABD #4 GPJ: 11-24-20 ; TI AUSTIN GEOTECH NOWELL 2 ; 2015 TT TEMPLATE DECEMBER WELL.GDT'' Released to Imaging: 6/17/2024 11:23:49 AM

2120	C-M	D-02	2110	T	= 11	ETRA	TEC	CH				I	LOG OF I	BORIN	IG BH	-5			Pa 1 c	ige of 1
Proje	ct N	lame	_{e:} Vac	uum Ab	o Ba	atter	y #4	Trur	nkline	e Rele	ease								1	
Boreł	nole	Loc	cation:	GPS Coor	dinate	es: 32	.7984	54°, -1	03.43	4928°		Surface Elevatior	n: 3918 ft							
Boreł	nole	Nur	mber:	BH-5						B	oreho iame	ole ter (in.): 2	Date Star	rted: 10	/13/2020		Date F	inished	d: 10/13/2	2020
			D (E	(m)	۲۲ (%)	NT (%)			EX				WATER LE <u>⊻ DRY</u> ft					<u>¥</u> D	DRY_ft	
DEPTH (ft)	OPERATION TYPE	SAMPLE	EXCREENING (ppm)	UNC FIELD	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)		D PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG		ERIAL DE	SCRIP	TION			DEPTH (ft)	REMA	RKS
	Ŧ	m	99									-SM- SILTY no staining.	SAND; Brov	wn, dry,	with no c	odor, w	/ith	1	BH-5 (0'-1')
3amp	bler		Split		ccetate	Line		Dera	ition			Hand Auger No	tes:							
Samp	bler s:		Split Spoon Shelby Grab Sample		cetate ane S aliforr est Pi	hear iia	- T	Dera ypes	Muc Rota	ary itinuous ht Auge sh	s er	Hand Auger No Air Rotary Direct Push Sh Core Barrel	tes: Irface eleva Irth. Labora own in the '	ation is a tory ana "Remark	n estima alytical sa ks" colum	ted va ample l an.	lue ba: IDs and	sed or d inter	n Google rvals are	

212C-N	MD-0	2110	Т	E TE	TRA	TEC	H					LC	G OF E	BOR	RING	BH-6	5				Page 1 of 1
Project I	Nam	_{e:} Vac	uum Ab	o Ba	ttery	, #4	Trun	kline	Rele	ease										I	
orehol	e Lo	cation:	GPS Coo	rdinates	s: 32.1	79810)8°, -1	03.434	4929°		Surface Eleva	ation:	3920 ft								
orehol	e Nu	mber:	BH-6						B	oreho iame	ole ter (in.): 2		Date Start	ted:	10/13/	/2020	D	ate Fi	nished	d: 10/	13/2020
		٥Ê	Ê	Y (%)	NT (%)			EX			While Drilling Remarks:		ATER LE <u>DRY</u> ft						<u>¥</u> D	PRY_ft	
DEPTH (ft) OPERATION TYPE	SAMPLE	EXCREENING (ppm)	U VOC FIELD	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)		PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG		ATEF	IAL DES	SCR	IPTIC	DN			DEPTH (ft)	RE	MARKS
ł	m	130									-SM- SILT no staining	TY SA	ND; Brow	vn, d	ry, witl	n no od	or, witl	٦	1	BH-6 ((D'-1')
	• 1 1	100						I					m of bore	ehole	e at 1.0) feet.					
Sampler ypes:	1	Split Spoon Shelby		cetate ane Sh	lear	CT	perai ypes: □	Mud Rota	ary		Hand Auger Air Rotary Direct Push	Earth	ce elevat . Laborat n in the "	tory a	analyti	cal sam	ple ID	e bas s and	sed or d inter	n Goog	lle re
ampler ypes:	1,1,1,1	Shelby		ane Sh	lear	CT		Mud Rota	ary tinuous nt Auge sh	sr	Air Rotary	Surfa Earth	ce elevat . Laborat	tory a	analyti	cal sam	ple ID	e bas	sed or d inter	n Goog rvals ar	lle

Pag<u>e 45 of</u> 142

212	C-MI	0-02110	Т	Ł	ETR	ATEC	СН				LOG OF BORING BH-7		Page 1 of 1
Proje	ect Na	_{ame:} Vac	cuum Al	oo B	atter	y #4	Trur	nkline	e Rel	ease			-
Bore	hole	Location:	GPS Coo	ordinat	tes: 32	.7979	71°, -1	103.43	4718°		Surface Elevation: 3919 ft		
Bore	hole	Number:	BH-7						E	Boreh	ter (in.): 8 Date Started: 10/13/2020 Date	Finishe	ed: 10/13/2020
				(%	(%)						WATER LEVEL OBSERVATIONS While Drilling <u>♀ DRY</u> ft Upon Completion of Drilling	<u>¥</u> I	DRY_ft
		b D D	(ud	RY (9	ENT	G		DEX			Remarks:		
DEPTH (ft)	OPERATION TYPE	SAMPLE THORIDE FIELD SCREENING (ppm)	U SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)		D PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
	2	X									FILL MATERIAL; White, poorly cemented, with no staining.	1	BH-7 (0'-1')
	\rangle										-SM- SILTY SAND; White, heavily cemented,	∕†′	
_	$\left \right\rangle$	$\overline{\mathbf{A}}$									with heavy gravel, with no odor, with no staining.	_	BH-7 (2'-3')
_	$ \rangle\rangle$										With interbedded caliche and calcrete.	-	
_	$\left \right\rangle$	$\overline{\mathbf{A}}$										-	BH-7 (4'-5')
5	$ \rangle\rangle$											5.5	5(+ 0)
	$\left \right\rangle$	$\overline{\mathbf{A}}$									-SM- SILTY SAND; White, heavily cemented, with moderate gravel, with no odor, with no staining.	. –	BH-7 (6'-7')
_	$\left \right\rangle$	4									With interbedded caliche and calcrete.	-	
_	$\left \right\rangle$											_	
_	$\left \right\rangle$											_	
10	$\left \right\rangle$	4										_	BH-7 (9'-10')
_	$\left \right\rangle$											_	
	$\left \right\rangle$											_	
_	$\left \right\rangle$											-	
_	$\left \right\rangle$											-	
15_	$\left \right\rangle$	4										-	BH-7 (14'-15')
_	$\left \right\rangle$											-	
_	$\left \right\rangle$										-SM- SILTY SAND; White, moderately cemented,	17	
_	$\left \right\rangle$										with heavy gravel, with no odor, with no staining.	-	
_	$\left \right\rangle\right $	7									With interbedded caliche and calcrete.	-	
20	$ \rangle\rangle $	\mathbb{N}									Bottom of borehole at 20.0 feet	20	BH-7 (19'-20')
<u>20</u>	pler	X Split					Dpera	Ition			Bottom of borehole at 20.0 feet.	20	BH-7 (19'-20')
Гуре	is:	Split Spoon Shelby Bulk Sample Sample				ד י י 		Muc Rota	itinuou ht Auge sh	s er	Hand Auger Notes: Air Rotary Surface elevation is an estimated value be Earth. Laboratory analytical sample IDs a shown in the "Remarks" column. Direct Push Core Barrel	based of and inte	on Google ervals are
000	lor.	Joe Tyler					٦rillin	a Eau	uipme	nt· A	Rotary Driller: Scarborough Drilling		

Project Name: Vacuum Abo Battery #4 Trunkline Release Borehole Location: GPS Coordinates: 32.798285°, -103.433895° Borehole Number: BH-9	ERVATIONS npletion of Drilling DN eemented, with cemented, n no staining.	₽ DEPTH (ft)	10/13/2020 <u>RY</u> ft REMARKS
Borehole Number: BH-9 Borehole Number: BH-9 Borehole Number: BH-9 Borehole Diameter (in.): 8 Date Started: 10/13/ WATER LEVEL OBSI WATER LEVEL OBSI Water Constraints WATER LEVEL OBSI While Drilling	ERVATIONS npletion of Drilling DN eemented, with cemented, n no staining.	DEPTH (ft)	<u>₹Y</u> ft
(i)	ERVATIONS npletion of Drilling DN eemented, with cemented, n no staining.	DEPTH (ft)	<u>₹Y</u> ft
Image: Normal and the second seco	DN cemented, with cemented, n no staining.	DEPTH (ft)	
	emented, with cemented, n no staining.		REMARKS
	emented, with cemented, n no staining.		REMARKS
5 SM- SILTY SAND; White, heavily c 5 SM- SILTY SAND; White, heavily c 5 SM- SILTY SAND; White, heavily c 6 SM- SILTY SAND; White, heavily c 7 SM- SILTY SAND; White, heavily c 10 SM- SILTY SAND; White, moderat 10 SM- SILTY SAND; White, moderat 10 SM- SILTY SAND; White, moderat	cemented, n no staining.	B	
5 5 5 5 5 6 7 7 7 7 7 7 7 7 7 8 8 8 7 8 7 8 8 8 7 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	n no staining.	-'	3H-9 (0'-1')
5 - 5 - 6 - 7 - 10 - 10 - 10 - 15 - 15 - - -	-		. ,
5 	ete.	—	3H-9 (2'-3')
SM- SILTY SAND; White, heavily of with moderate gravel, with no odor, with interbedded caliche and calcred	-	-	- ()
SM- SILTY SAND; White, heavily of with moderate gravel, with no odor, with interbedded caliche and calcred		—	3H-9 (4'-5')
with moderate gravel, with no odor, with interbedded caliche and calcred with interbedded caliche and c		5.5	
	cemented,	_	3H-9 (6'-7')
	ete.	_	38-9 (0-7)
	-	-	
	-	-	
		— ^в	3H-9 (9'-10')
	-	_	
	-	_	
	-	_	
	-	-	
→ → → → → → → → → → → → → → → → → → →	-	_	3H-9 (14'-15')
→ → → → → → → → → → → → → → → → → → →		-	
$ \rangle \rangle$ with heavy gravel, with no odor, with	tely cemented.	_17	
→ → → With interbedded caliche and calcre	n no staining.	_	
	te.	–	
20 X Bottom of borehole at 20.0	0 feet	₂₀ B	3H-9 (19'-20')
Sampler Split Acetate Liner Operation Hand Auger Notes:			
Shelby Image: California Bulk California Sample Test Pit Mud Image: Continuous Flight Auger Image: Continuous Wash Image: Core Barrel		sed on d interv	Google als are

C-MD-	02110		Ŀ	ETRA	ATEC	H				LOG OF BORING BH-10		Page 1 of ²
ct Nar	_{ne:} Vac	uum At	o Ba	atter	y #4	Trun	nkline	e Rele	ease			
nole Lo	ocation:	GPS Coo	rdinat	es: 32	.7984	95°, -1	03.43	3834°		Surface Elevation: 3915 ft		
nole N	umber: E	3H-10						E	oreho iame	le 8 Date Started: 10/13/2020 Date Fini	ished	: 10/13/202
	cLD (mqc	(mdc	ERY (%)	'ENT (%)	3f)		IDEX			WATER LEVEL OBSERVATIONS While Drilling <u>V DRY</u> ft Upon Completion of Drilling	⊈ DF	<u>₹Y_</u> ft
OPERATION TYPI SAMPLE		U VOC FIELD	SAMPLE RECOVE	MOISTURE CONT	DRY DENSITY (po			MINUS NO. 200 (%	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
										-SM- SILTY SAND; White, heavily cemented,	<u>1</u>	BH-10 (0'-1')
										With interbedded caliche and calcrete.	- -	BH-10 (2'-3')
										-SM- SILTY SAND; White, heavily cemented,	-	BH-10 (4'-5')
$\left\{ \left \right\rangle \right\}$										with moderate gravel, with no odor, with no staining. With interbedded caliche and calcrete.	-	BH-10 (6'-7')
										-	-	BH-10 (9'-10')
										-	-	
										-	-	BH-10 (14'-15'
										-SM- SILTY SAND; White, moderately cemented, with heavy gravel, with no odor, with no staining.	<u>1</u> 7 -	
											- 20	BH-10 (19'-20')
bler S:	Split Spoon					Dpera	tion			7		
	Ct Nar Nale Lo Nale Lo Nale Lo Sample Sample Sa	OPERATION TYPE	Ct Name: Vacuum At nole Location: GPS Coo nole Number: BH-10	ct Name: Vacuum Abo Ba nole Location: GPS Coordinat nole Number: BH-10 Image: Grading (bbm) ((%) About a construction and a constructined and a constructined and a construction and construction and co	ct Name: Vacuum Abo Batter nole Location: GPS Coordinates: 32 nole Number: BH-10 ((uud) 001 (uud) 001 (uu	Ct Name: Vacuum Abo Battery #4 tole Location: GPS Coordinates: 32.7984 tole Number: BH-10	ct Name: Vacuum Abo Battery #4 Trur nole Location: GPS Coordinates: 32.798495°, -1 nole Number: BH-10 United biological and the second	Image: ct Name: Vacuum Abo Battery #4 Trunkline nole Location: GPS Coordinates: 32.798495°, -103.43 nole Number: BH-10 Image: ct Name: Image: ct Name: c	at Name: Vacuum Abo Battery #4 Trunkline Relevant tole Location: GPS Coordinates: 32.798495", -103.433834" nole Number: BH-10 Image: BH-10 Image: BH-10 Image: BH-10	act Name: Vacuum Abo Battery #4 Trunkline Release nole Location: GPS Coordinates: 32.798495°, -103.433834° 1 nole Number: BH-10 Brance Image: Strain and the s	et Name: Vacuum Abo Battery #4 Trunkline Release Inde Loadin: dPS Coordinates: 82789486;103.43384* Surface Elevation: 3915 ft Date Stanted: 10/13/2020 Date Fin WATER LEVEL OBSERVATIONS While Drilling <u>DRY</u> ft Upon Completion of Drilling The Number: BH-10 UNTER LEVEL OBSERVATIONS While Drilling <u>DRY</u> ft Upon Completion of Drilling The Number <u>BH-10 UNTER LEVEL OBSERVATIONS</u> While Drilling <u>DRY</u> ft Upon Completion of Drilling The Number <u>BH-10 UNTER LEVEL OBSERVATIONS</u> While Drilling <u>SDRY</u> ft Upon Completion of Drilling The Number <u>BH-10 UNTER LEVEL OBSERVATIONS</u> While Drilling <u>SDRY</u> ft Upon Completion of Drilling <u>SDRY</u> Remarks: MATERIAL DESCRIPTION - FILL MATERIAL; White, poorly cemented, with no codor, with no staining. With interbedded caliche and calcrete. SM- SILTY SAND; White, heavily cemented, with no staining. With interbedded caliche and calcrete. SM- SILTY SAND; White, moderately cemented, with no staining. With interbedded caliche and calcrete. SM- SILTY SAND; White, moderately cemented, with no staining. With interbedded caliche and calcrete. SM- SILTY SAND; White, moderately cemented, with no staining. With interbedded caliche and calcrete. SM- SILTY SAND; White, moderately cemented, with no staining. With interbedded caliche and calcrete. SM- SILTY SAND; White, moderately cemented, With interbedded caliche and calcrete. SM- SILTY SAND; White, moderately cemented, With interbedded caliche and calcrete.	et Name: Vacuum Abo Battery #4 Trunkline Release nole Location: GPS Coordinates: 32:78469: -103.43334' Surface Elevation: 3915 ft Deameter (n.): 8 Date Startest: 10/13/2020 Date Finished WATER LEVEL OBSERVATIONS While Drilling V DRY # Upon Completion of Drilling V DRY Remarks: MATERIAL DESCRIPTION (

Logger: Joe Tyler Drilling Equipment: Air Rotary Driller: Scarborough Drilling WAC ABD # 4.CPJ ` 11-24-20 ` TT AUSTIN CECTECH NOWELLS ` 2015 TT TEMPLATE DECEMBER WELL.GDT ` ` Released to Imaging: 6/17/2024 II:23:49 AM

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212			- I	_																
	C-M	ID-0	2110	Т	ь TI	ETRA	TEC	H					LC	og of Bo	ORIN	IG BH	-11			Page 1 of 1
Proje	ct N	lam	_{e:} Vad	cuum Ab	o Ba	attery	y #4	Trur	kline	Rele	ease									
Borel	hole	Loc	cation:	GPS Coo	rdinate	es: 32	.7984	98°, -1	03.43	3410°	:	Surface Eleva	ation:	3913 ft						
Bore	hole	Nu	mber:	BH-11						B	orehc iame	ole ter (in.): 2		Date Starte	ed: 10)/13/202	0	Date F	inishe	ed: 10/13/2020
			LD (mq	(mq	RY (%)	ENT (%)	(DEX			While Drilling Remarks:		VATER LEV <u>ZDRY</u> ft					<u>¥</u> [DRY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	XZ CHLORIDE FIELD SCREENING (ppm)	UNC FIELD	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)		D PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	M	ATE	RIAL DES	SCRIF	PTION			DEPTH (ft)	REMARKS
	ł	6M2	125									- SM- SILT no staining	ΓΥ S g.	AND; Brow	n, dry	, with no	odor, v	with	_	BH-11 (0'-1') BH-11 (0'-1')
		Й	225										Bot	tom of bore	hole a	t 2.0 fee	et.		2	вн-11 (0-1)
Samı	oler s:	1.114	Split Spoon Shelby Sampl Sampl		cetate ane S aliforr est Pi	hear nia	- C)pera ypes	Mud Rota	ary tinuous nt Auge sh	s s	Hand Auger Air Rotary Direct Push Core Barrel	Ear	es: face elevati th. Laborato wn in the "F	ory an	alytical s	ample	alue ba IDs and	sed o d inte	on Google ervals are

eived b	y C)CD: 6/	14/2024	(12:	:55: <u>:</u>	59 <u>P</u>	<u>M</u>									Page 50 o		
212C-N	MD-	02110	T	E)	ETR	ATE	сн					LC	DG OF BORING BH-12			Page 1 of 1		
Project I	Nar	_{ne:} Va	cuum At	oo B	atter	ry #4	Trur	nkline	e Rel	ease	•							
Borehol	e Lo	ocation:	GPS Coo	ordinat	tes: 32	2.7986	67°, -	103.43	32599°		Surface Eleva	ation:	3910 ft					
Borehole Number: BH-12									E	Boreh Diame	ole eter (in.): 2	e er (in.): 2 Date Started: 10/13/2020 Date Fin			inishe	inished: 10/13/2020		
		D. (m	(mc	۲ (%) ۲	NT (%)			DEX			While Drilling		VATER LEVEL OBSERVATIC		<u>¥</u> [DRY_ft		
DEPTH (ft) OPERATION TYPE	SAMPLE	XI CHLORIDE FIELD SCREENING (ppm)	D SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	D PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG		ATE	RIAL DESCRIPTION		DEPTH (ft)	REMARKS		
-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	250									-SM- SIL ⁻ no stainin		AND; Brown, dry, with no odor,	with	-	BH-12 (0'-1') BH-12 (0'-1')		
		190										Bot	tom of borehole at 2.0 feet.		2	51112 (0 1)		
Samplei Types:		Split Spoor Shelb Bulk Samp	y 🔟 \ N		te Line Shear rnia			ation s: Muc Rot	d ary htinuou ht Aug		Hand Auger	Ear	es: face elevation is an estimated v th. Laboratory analytical sample wn in the "Remarks" column.	alue ba IDs an	ased o nd inte	n Google		
		Grab Samp		Fest P				Wa Rot	sh	er 📕	Core Barrel	5110				rvals are		

			/14/2024	.										ING BH-13			Page 51
212C-MD-02110 TETRA TECH												Page 1 of 1					
roje	ct N	ame: Va	acuum Abo	o Ba	ttery	/ #4	Trur	nkline	e Rele	ease							
Boreł	nole	Location:	GPS Coord	dinates	s: 32.	79850	04°, -1	03.43			Surface Eleva	ation:	3910 ft				
Borehole Number: BH-13 Boreh Diam							Boreho Diame	ole eter (in.): 2	inishe	hed: 10/13/2020							
			(m	RY (%)	ENT (%)			DEX			While Drilling			OBSERVATIO		<u>¥</u> [DRY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE THORIDE FIELD SCREENING (ppm)	D SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)		D PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	M	ATE	RIAL DESCF	RIPTION		DEPTH (ft)	REMARKS
_		m 260									- SM- SIL ⁻ no stainin	TY S. g.	AND; Brown, d	lry, with no odor	, with	_	BH-13 (0'-1')
	ł	305										Bott	om of borehole	e at 2.0 feet		2	BH-13 (0'-1')
Samp	oler s:	Split Spoo Shel Bulk Sam Grab	ple Ca	etate ine Sh ilifornia est Pit	near a	T		: Muc Rota	ary itinuou: ht Auge sh	s er	Hand Auger Air Rotary Direct Push Core Barrel	Earl	face elevation	is an estimated analytical sampl narks" column.	value ba e IDs an	sed o d inte	n Google rvals are
Logg	er:	Adrian Garcia	1				Drillin	g Eqi	uipme	nt: Ha	and Auger	Drille	r: Tetra Tech				

		• OCD: 6	C										LOG OF BORING BH-14		Page 52
212C-MD-02110 TETRA TECH												Page 1 of 1			
Proje	ect N	ame: V	acuum A	bo B	atter	y #4	Trur	nkline	e Rel	lease	•				
Bore	hole	Location:	GPS Coo	ordina	tes: 32	2.7987	07°, -1	03.43	1531°		Surface Elev	atic	on: 3910 ft		
Bore	hole	Number:	BH-14						E	Boreh Diame	ole eter (in.): 2		Date Started: 10/13/2020 Date	Finishe	ed: 10/13/2020
		D (m	(mc	۲۲ (%)	ENT (%)			DEX			While Drillin Remarks:	ıg	WATER LEVEL OBSERVATIONS	<u>¥</u>	<u>DRY_</u> ft
DEPTH (ft)	OPERATION TYPE	SAMPLE T SAMPLE CHLORIDE FIELD SCREENING (ppm)	UNC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)		D PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG		1A1	FERIAL DESCRIPTION	DEPTH (ft)	REMARKS
	⋠	m Exeri									-SM- SIL	.TY	SAND; Brown, dry, with no odor, with		BH-14 (0'-1')
	ł	420 M									no stainin	ng.		-	BH-14 (0'-1')
		450										В	ottom of borehole at 2.0 feet.	2	
Samı Type	oler s:	Split Spoi Shel Sarr Grat Sarr	ple			r Ţ		Muc Rota	itinuou ht Aug sh	Jis Jer	Hand Auger Air Rotary Direct Push Core Barrel	S E	otes: urface elevation is an estimated value t arth. Laboratory analytical sample IDs a hown in the "Remarks" column.	ased o nd inte	on Google ervals are
		Adrian Garci				ſ	Drillin	a Fai	linme	ent н₂	and Auger	Dr	iller: Tetra Tech		

June 14, 2024

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

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:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

Acknowledgment-Only:

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

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

ATTACHMENT 4 – PHOTOGRAPHIC DOCUMENTATION



② 345°N (T) LAT: 32.798425 LON: -103.434698 ±4m ▲ 1197m

Site Remediation Tetra Tech

A REAL PROPERTY AND A REAL FOR THE ASS IN COMPANY AND A REAL FOR THE ASS IN COMPANY AND A REAL FOR THE ASS IN C

NE 60 30

Maverick- Vacuum #4 Feb 16 2024, 12:05:20 MST

© 35°NE (T) LAT: 32.798446 LON: -103.434775 ±4m ▲ 1197m

Site Remediation Tetra Tech







© 349°N (T) LAT: 32.797908 LON: -103.434708 ±4m ▲ 1197m

Site Remediation Tetra Tech

THE FRAT



NE 30 60

Maverick- Vacuum ABO #4 Feb 19 2024, 13:31:27 MST



© 24°NE (T) LAT: 32.797917 LON: -103.434784 ±4m ▲ 1198m

Site Remediation Tetra Tech

Maverick-, Vacuum ABO, #4 Feb 19 2024, 13:31:35 MST

90 • I • I • I • I • I • I • 84 ±4m ▲ 1198m

NW Ν NE 90 300 30 330 60 © 17°N (T) LAT: 32.797962 LON: -103.434784 ±4m ▲ 1197m

Site Remediation Tetra Tech







© 353°N (T) LAT: 32.798386 LON: -103.434718 ±4m ▲ 1197m

Site Remediation Tetra Tech



Ø 68°E (T) LAT: 32.798454 LON: -103.434800 ±4m ▲ 1197m

Site Remediation Tetra Tech

$SE_{120} = 150_{150}$

erick-Vacuum ABO #4 19 2024, 13 33:50 MST



© 306°NW (T) LAT: 32.798468 LON: -103.434204 ±3m ▲ 1198m

Site Remediation Tetra Tech

A TANK STAN

N 0 30 • I • I • I • I • I 204 ±3m ▲ 1198m





O 66°NE (T) LAT: 32.798473 LON: -103.434379 ±4m ▲ 1198m

Site Remediation, Tetra Tech



SE 120 150

Maverick- Vacuum ABO #4 Feb 19 2024, 13:35:04 MST.

© 140°SE (T) LAT: 32.798544 LON: -103.434328 ±4m ▲ 1196m

Site Remediation Tetra Tech



Mavenck-Vacuum ABO #4

Feb 19 2024, 13:35:16 MST



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

Site Remediation Tetra Tech

CARLES CONTRACTOR

NW 300 330 • I • I • I • I • I 41 + 4m ▲ 1197m

Maverick-Vacuum ABO #4

2024, 13:35:26 MST



eyalla -

180 150

Maverick- Vacuum ABO #4 Feb 19 2024, 13:50:21 MST

270 300 180 210 240 © 263°W (T) LAT: 32.798680 LON: -103.431721 ±4m ▲ 1194m

SW

Site Remediation **Tetra Tech**

NW 330





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



Maverick- Vacuum ABO #4 Feb 19 2024, 13:50:44 MST

NE SE 90 30 120 150 60 ② 81°E (T) LAT: 32.798681 LON: -103.431986 ±4m ▲ 1192m

Site Remediation Tetra Tech

Maverick-Vacuum ABO #4 Feb 29 2024, 15:33:52 MST



O 303°NW (T) LAT: 32.798645 LON: -103.431563 ±4m ▲ 1192m

Site Remediation Tetra Tech



30

Maverick- Vacuum ABO #4 Feb 29 2024, 15:34:40 MST

June 14, 2024

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

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 www.tceq.texas.gov/field/ga/lab_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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 - 10 (H240759-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500Cl-B	mg,	/kg	Analyze	d 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	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	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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 - 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	Analyze	d 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, Lab Director/Quality Manager



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 - 12 (H240759-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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 - 13 (H240759-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500Cl-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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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 - 14 (H240759-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 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	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	02/16/2024	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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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 - 15 (H240759-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	544	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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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 - 16 (H240759-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 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	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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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 - 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	Analyze	d 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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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 - 13 (4.0') (H240759-10)

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	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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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 - 14 (4.0') (H240759-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	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	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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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 - 15 (4.0') (H240759-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 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	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 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 - 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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Celez D. Keine

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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	% 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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Celey D. Keene, Lab Director/Quality Manager



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 - 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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Celey D. Keene, Lab Director/Quality Manager



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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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 whatscever 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 whose 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 whose share there applied by the services arise 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

ved by		inquished by:	1	inquished by:	1/1	elinguished by:		×		10	.0	10	0		1	LAB USE)	LAB #	H240 759		Comments:	Receiving Laboratory:	invoice IO.	(county, state)	Project Location:	Project Name:	1	Client Name:
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		Date:		Hender V L		Data											SAMPLE IDENTIFICATION		Include : Chris Straub Chris.Straub@tetratech.com	Cardinal Labs	PRINT OTHER TETTUTE	Attn: Churk Tarhuna	Lea County, NM		Through-Vacuum ABO Battery #4	Maverick Natural Resources	Tetra Tech,
		Time: P		-16-24 V	1258 ann												ION		tratech.com						Battery #4	ces	ch, Inc.
		Received by:	menored by.	Peneived hv:	6			2/16/2024	2/16/2024	2/16/2024	2/16/2024	2/16/2024	2/16/2024	2/16/2024	2/16/2024	DATE	YEAR: 2023	SAMPLING			Sampler Sinnature:			Proiect #		Site Manager:	
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Inclusion Instruction of the service of th		OCD Norminguisting by:		dinquished by:	4 12:	elinquished by:	_	12	14	12	-	10	5	0	(LAB USE)	LAB #	HEHO 759		Comments:	Receiving Laboratory:	Invoice to:	(county, state)		Project Name:	Client Name:
OF Wall Street, Be 100 "In (423) Box 301 The fill Classical Colspan="2">Chuck Terhune 281-755-8986 Chuck terhune@letratech.com 212C-MD-03372 212C-MD-03372 212C-MD-03372 Chuck terhune@letratech.com Presserving Chuck terhune@letratech.com Presserving		Date		Date:	1 Kalonia mine 125	Date: Time:		FS-18 (3 0)	FS-17 (3.0)	FS-16 (2.0)				ES-12 (4 0')		SAMPLE IDENTIFICATION	-	Include : Chris Straub Chris.Straub@tetratech.com					Through-Vacuum ABO Battery	Maverick Natural Resources	Tetra Tech,
Of W Wall Street, Sterior Wideway Transming The Wall Street, Sterior Bridge Fernadez Chuck Terhune 212C-MD-03372 Chuck Terhune 212C-MD-03372 March Column (Circle Particle Column) Jorge Fernadez Jorge Fernadez 122C-MD-03372 122C-MD-03372 122C-MD-03372 Jorge Fernadez Verticate Ch.com 122C-MD-03372 122C-MD-03372 122C-MD-03372 Jorge Fernadez Verticate Ch.com Verticate Ch.com 122C-MD-0327 122C-MD-0327 Jorge Fernadez Verticate Ch.com Verticate Ch.com 122C-MD-0327 122C-MD-0327 Jorge Fernadez Verticate Ch.com Verticate		Received by:		Received by:	1 fam		2/16/2024	2/16/2024	2/16/2024	2/16/2024	2/16/2024	2/16/2024	2/16/2024	D	ATE	YEAR: 2023	SAMPLIN		Sampler Signatur				ch	Site Manager:	
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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 www.tceq.texas.gov/field/ga/lab_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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

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

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	02/19/2024	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, SM4500Cl-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	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500Cl-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						

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Celey D. Keene, Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

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

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	02/19/2024	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, SM4500Cl-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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

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

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500Cl-B	mg	/kg	Analyze	d 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	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	75.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500Cl-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, Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	Analyze	d 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	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	73.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.7	% 49.1-14	8						

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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
Project Location:	MAVERICK - LEA CO NM		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500Cl-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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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
Project Location:	MAVERICK - LEA CO NM		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	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	73.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.2	% 49.1-14	8						

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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
Project Location:	MAVERICK - LEA CO NM		

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

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	02/19/2024	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	Analyze	d 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	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	61.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	57.4	% 49.1-14	8						

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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
Project Location:	MAVERICK - LEA CO NM		

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

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	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	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	68.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.0	% 49.1-14	8						

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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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 1 (H240793-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	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	68.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.1	% 49.1-14	8						

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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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 2 (H240793-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500Cl-B	mg,	/kg	Analyze	d 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	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	77.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.6	% 49.1-14	8						

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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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 3 (H240793-13)

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	02/19/2024	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, SM4500Cl-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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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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 4 (H240793-14)

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	02/19/2024	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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 5 (H240793-15)

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	02/19/2024	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, 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	74.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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
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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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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 7 (H240793-17)

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	97.9	% 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	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	02/20/2024	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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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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 8 (H240793-18)

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	02/20/2024	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, SM4500Cl-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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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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 17 (H240793-19)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500Cl-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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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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 18 (H240793-20)

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	02/20/2024	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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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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 19 (H240793-21)

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	2.02	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 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	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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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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 20 (H240793-22)

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	2.02	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, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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	82.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.0	% 49.1-14	8						

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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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 21 (H240793-23)

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	2.02	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, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.3	% 49.1-14	8						

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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
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WS - 22 (H240793-24)

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	2.02	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	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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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
Project Location:	MAVERICK - LEA CO NM		

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

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	2.02	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	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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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

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

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	2.02	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	% 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	112	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	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

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

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	2.02	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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Celey D. Keene, Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

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

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	2.02	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	% 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	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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Celey D. Keene, Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

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

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	2.02	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, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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	75.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

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

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	2.02	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, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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	80.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.7	% 49.1-14	8						

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 6/14/2024 12:55:59 PM

Analysis Request of Chain of Custody Record Client Name: county, state) roject Name omments: teceiving Laboratory: roject Location Relinquished by Relinquished by Relinquished by voice to: 240HC LAB # UNLY ONLY 2 FS-7(1.0') FS-6 (1.0') FS-3 (1.0') FS-2 (1.0') FS-1 (1.0') Include : Chris Straub Chris.Straub@tetratech.com FS-5 (1.0') FS-4 (1.0') FS-10 (1.0') FS-9 (1.0') FS-8 (1.0') Cardinal Labs Attn: Chuck Terhune Lea County, NN Maverick Natural Resources Through-Vacuum ABO Battery #4 Tetra Tech, Inc. SAMPLE IDENTIFICATION Date: Date Date J Time: lime: Time 5 P 523 Site Manager: Sampler Signature: Project #: ORIGINAL COPY Received by Received by 2/19/2024 2/19/2024 EAR: 2023 2/19/2024 2/19/2024 2/19/2024 2/19/2024 2/19/2024 2/19/2024 2/19/2024 2/19/2024 DATE SAMPLING chuck.terhune@tetratech.com TIME Chuck Terhune 281-755-8965 WATER MATRIX 212C-MD-03372 901 W. Vall Street, Ste 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946 × × × × SOIL × × Jorge Fernadez × × HCL Date 2-19 PRESERVATIVE HNO × × ICE × × × × × × × × 2 Time: 1111 5 # CONTAINERS ŝ FILTERED (Y/N) **BTEX 8021B BTEX 8260B** × × × × × × × N.C. (Circle) HAND DELIVERED Sample Temperature TPH TX1005 (Ext to C35) LAB USE ONLY TPH 8015M (GRO - DRO - ORO - MRO) × × × × × × × × まま **Circle or Specify Method No** PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg ANALYSIS REQUEST **TCLP** Volatiles REMARKS X RUSH: TCLP Semi Volatiles Special Report Limits or TRRP Report Rush Charges Authorized RCI FEDEX GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 UPS Same Da PCB's 8082 / 608 Standard TAT NORM Page Tracking # PLM (Asbestos) × × × × × Chloride × × × 24 hr Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance 48 hr 9 72 hr Page 33 of 36 Hold

Page 124 of 142

Received by OCD: 6/14/2024 12:55:59 PM

	Relinquished by:		Relinquished by:	ha h	Relinquished by			18 WS-8	17 WS-7	0	15 WS-5	14 WS-4		12 WS-2	1/ WS-1	(LAB USE)	Harotha		Comments: Include :		Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	5
	Date: Time.		Date: Time:	2-10	Date: Time: 15 37												SAMPLE IDENTIFICATION		Include : Chris Straub Chris.Straub@tetratech.com	Cardinal Labs		Attn: Chuck Terhune	Lea County, NM	Through-Vacuum ABO Battery #4	Maverick Natural Resources	Tetra Tech, Inc.
	Necessed by	6 YLOON BU	Received by:		2			2/19/2024	2/19/2024	2/19/2024	2/19/2024	2/19/2024	2/19/2024	2/19/2024	2/19/2024	DATE	YEAR: 2023	SAMPLING			Sampler Signature:		Project #:		Site Manager:	
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		Date: Time	0 "	Date: Time:				×	×	×	×	×	×	×	×	HCL HNO ₃ ICE		METHOD			Jorge Fernadez		212C-MD-03372	atech.com	rhune	901 W Wall Street, Sie 100 Midland, Texas 79701 Tel (432) 682-3945 Fax (432) 682-3945
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Page 125 of 142

	Relinquished by:	: 6/14/ Kellinguistieu uy.		Relincuished by:				24 V	N 52	22 V		70 W	M 61	(LAB USE)	HOHOTAS	-	Louisens.		Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	5
	Date: Time:		L Ander UT 2-19-29- 13"	Date: Time:				WS-22	WS-21	WS-20	WS-19	WS-18	WS-17		SAMPLE IDENTIFICATION		Include : Chris Straub Chris.Straub@tetratech.com	Cardinal Labs	Attri: Chuck Terhune		Lea County, NM	Through-Vacuum ABO Battery #4	Maverick Natural Resources	Tetra Tech, Inc.
T	Received by:	Shall	Received by:					2/19/2024	2/19/2024	2/19/2024	2/19/2024	2/19/2024	2/19/2024	DATE	YEAR: 2023	SAMPLING			Sampler Signature:		Project#:		Site Manager:	
	0	quel				-		×	×	×	×	×	×	WATE	R	MATRIX			lorae		212C-I	281-/55-8965 chuck.terhune@tetratech.com	Chuck Terhune	901 W W Midlan Tel (Fax (
	Date	2-19-	Date: Time;					×	×	×	×	×	×	HCL HNO ₃ ICE		METHOD			Jorge Fernadez		212C-MD-03372	atech.com	rhune	901 W Wall Street, Ste 100 Midland, Texas 79701 Tel (432) 882-4559 Fax (432) 682-3945
		ay 153	19										-	# CON	-	ERS								
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UPS	xial Report	Rush Charges Authorized	Same	Standard										GC/MS PCB's NORM	S Semi 8082	. Vol. / 608	8270C/	625				_	ify Method	
Tracking #:	Special Report Limits or TRRP Report	Authorized	Day 24 hr	dard IAI				×	×	×		×	×	Chlori	de de s	Sulfat	e TD	-	attach	ned lis	st)	_	ST hod No.	
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	Relinquished by:	Relinquianed by:	Jen .	Relinquished by:			50 FS-24		_		27 FS-21		FS-19 (3.0")	(LAB USE)	EbLanch		Comments: Includ		Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	F	Alidiyala Inchron
	Date: Time:	Date: Time:	219-	Date: Time: / S			FS-24 (1.0)	FS-23 (1.0')	FS-22 (1.0)		ES-21 (1 0)	FS-20 (3.0')	(3.0')		SAMPLE IDENTIFICATION		Include ; Chris Straub Chris.Straub@tetratech.com	Cardinal Labs		Attn: Chuck Terhune	Lea County, NM	Through-Vacuum ABO Battery #4	Maverick Natural Resources	Tetra Tech, Inc.	The second se
	Received by:	Received by	_	533			211012024	2/19/2024		2/19/2024	2/19/2024	2/19/2024	2/19/2024	DATE	YEAR: 2023	SAMPLING			Sampler Signature:		Project #:		Site Manager:		
	0	ionly			+		-,	< >	< 1	×	×	×	×	WATER	2	MATRIX		Joide	lorne I		212C-N	chuck.terhune@tetratech.com	Chuck Terhune	901 W Wa Midlan Tel (4 Fax (4	
	Date.	ce	Date: Time:					× >	<	x	×	×	×	HCL HNO3 ICE		METHOD		CILIQUEL	Fernadez		212C-MD-03372	atech.com	rhune	901 W Wall Street. Ste 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946	
		24/1533												# CONT	ED (Y	7N)									
(Circle)	4	Sample Temperature	-	5	_					×	×	×	×	BTEX 8	(1005	(Ext t	o C35)								
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HAND DELIVERED	5	erature		SE		-	H	-	_		F	-	+	Total M								_	rcle		
VERE	-			RE										TCLP V	olatiles	8							ANA		
	S		X RUSH	REMARKS:		-		+	-	-	-	+	+	TCLP S	emi Vo	Diatile	5		_		_	_	or Specify Metho		
FEDEX	Special Report Limits or TRRP Report	Rush Charges Authorized	USH	KS:						_			-	GC/MS			_	205	_				pecif		
UPS	al Re	Charg	Sa	6		-		+	_	-	-	+	+	GC/MS PCB's			8270C/6	20	-	-			Y N		
	port	jes /	Same Day	Standard			Li							NORM									Method		
Track	Limit	uthe	Van	darc			4	-	×	×	×	×	×	PLM (A		s)	_	_					hoo		
Tracking #:	SOF	Tized	24 hr	TAT	\vdash			×	^	Ê	Ê	f	f	Chlorid	ie S	ulfate			_				d No.		
Ĩ.	TRR	Ť	/	17								T		Genera	al Wate	er Ch	emistry	(see	atta	ached	list)		0.	1.1.1	
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												T		Hold									P	age 36 of	3

Received by OCD: 6/14/2024 12:55:59 PM

Page 127 of 142



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 www.tceq.texas.gov/field/qa/lab_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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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
Project Location:	MAVERICK - LEA CO NM		

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

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	02/22/2024	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, SM4500Cl-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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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 whatscever 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 whose 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 whose share there applied by the services arise 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.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



June 14, 2024

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

ATTACHMENT 6 – NMSLO SEED MIXTURE

Released to Imaging: 6/17/2024 11:23:49 AM

NMSLO Seed Mix

Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

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

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

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



Version 1.1 – 2018

New Mexico State Land Office Southeastern New Mexico Revegetation Handbook

SLO Seed Mix

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.

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



Version 1.1 – 2018

New Mexico State Land Office Southeastern New Mexico Revegetation Handbook

Released to Imaging: 6/17/2024 11:23:49 AM

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District III

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

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

QUESTIONS

Action 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

Incident Details

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. Crude Oil Released (bbls) Details Not answered. Cause: Equipment Failure | Flow Line - Production | Produced Water | Released: 38 BBL | Produced Water Released (bbls) Details 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 Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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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 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)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.		
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	liation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of sted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetratech.com	

Date: 06/14/2024

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Operator:

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

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

QUESTIONS, Page 3

Action 354285

Page 137 of 142

QUESTIONS (continued) 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. affected by th groupdwater beneath the What is the aball

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 an	nd 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

.		
		to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	n plan approval with this submission	Yes
Attach a comprehensive report d	emonstrating the lateral and vertical extents of soil contamination	ion 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 Samplin	g: (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI 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	, , , , , , , , , , , , , , , , , , ,	
Per Subsection B of 19.15.29.11 which includes the anticipated tin	NMAC unless the site characterization report includes complet	
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w	NMAC unless the site characterization report includes complet melines for beginning and completing the remediation.	ted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 which includes the anticipated tii On what estimated date w On what date will (or did) t	NMAC unless the site characterization report includes complet melines for beginning and completing the remediation. vill the remediation commence	ted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w On what date will (or did) On what date will (or was)	NMAC unless the site characterization report includes complet melines for beginning and completing the remediation. vill the remediation commence the final sampling or liner inspection occur	ted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 02/09/2024 02/22/2024
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w On what date will (or did) i On what date will (or was) What is the estimated surf	NMAC unless the site characterization report includes complet melines for beginning and completing the remediation. vill the remediation commence the final sampling or liner inspection occur) the remediation complete(d)	ted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 02/09/2024 02/22/2024 02/23/2024
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w On what date will (or did) t On what date will (or was) What is the estimated surf What is the estimated volu	NMAC unless the site characterization report includes complet melines for beginning and completing the remediation. vill the remediation commence the final sampling or liner inspection occur the remediation complete(d) face area (in square feet) that will be reclaimed	ted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 02/09/2024 02/22/2024 02/23/2024 1325
Per Subsection B of 19.15.29.11 which includes the anticipated ti On what estimated date w On what date will (or did) i On what date will (or was) What is the estimated surf What is the estimated volu What is the estimated surf	NMAC unless the site characterization report includes complet melines for beginning and completing the remediation. vill the remediation commence the final sampling or liner inspection occur the remediation complete(d) face area (in square feet) that will be reclaimed ume (in cubic yards) that will be reclaimed	Ited efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 02/09/2024 02/22/2024 02/23/2024 02/23/2024 1325 110

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

OR is the off-site disposal site, to be used, out-of-state

OR is the off-site disposal site, to be used, an NMED facility

(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)

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District III

Operator

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

(In Situ) Soil Vapor Extraction

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

QUESTIONS, Page 4

Action 354285

QUESTIONS (continued) OGRID: Mayerick 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.

(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

Not answered.

Not answered.

Not answered

Not answered.

I hereby agree and sign off to the above statement		Name: Chuck Terhune	
	I hereby agree and sign off to the above statement	Title: Program Manager	
	Thereby agree and sign on to the above statement	Email: chuck.terhune@tetratech.com	
		Date: 06/14/2024	
F	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

Page 139 of 142

Action 354285

QUESTIONS (continued)		
Operator: Maverick Permian LLC	OGRID: 331199	
Houston, TX 77002	Action Number: 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

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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.		
	Names Church Terrhume	

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

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

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

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

QUESTIONS, Page 7

Action 354285

Page 141 of 142

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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CONDITIONS

Action 354285

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

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