



October 31, 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
Philmex 3 Battery Bleeder Release
Unit Letter Unit Letter C, Section 36, Township 17 South, Range 33 East
Lea County, New Mexico
Incident ID# nGRL0833634443**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by ConocoPhillips (COP) to assess a historical release that occurred at the Philmex 3 Battery. The Philmex 3 Battery shares a lease pad with the Philmex #18 well (API No. 30-025-28829). The release footprint is located in Public Land Survey System (PLSS) Unit Letter C, Section 36, Township 17 South, Range 33 East, in Lea County, New Mexico (Site). The release occurred at coordinates 32.796567°, -103.618333°, as shown in **Figure 1** and **Figure 2**. Maverick Permian, LLC (Maverick) acquired this site from ConocoPhillips in 2022 and engaged Tetra Tech to complete remediation of the release at the Site.

BACKGROUND

According to the State of New Mexico C-141 Initial Report, the release was discovered on October 19, 2008. According to the C-141, the release occurred due to cattle actuating the handle on a bleeder valve. The release consisted of 13 barrels (bbls) of oil, which affected one 42-foot by 42-foot by 2-inch-deep area and another 24-foot by 15-foot by 18-inch-deep area of dry caliche pad and lease road. During immediate response actions, a vacuum truck recovered 12 bbls of oil. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on October 22, 2008, and assigned the release Incident ID nGRL0833634443. release is included in an Agreed Compliance Order-Releases (ACO-R) between ConocoPhillips and the NMOCD, fully executed on May 9, 2019.

SITE CHARACTERIZATION

Receptors

Tetra Tech performed a site characterization for the release location. It did not identify any watercourses, sinkholes, playas, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.29.11 New Mexico Administrative Code (NMAC). Based on a review of the NMOCD Mapper, the site is in an area of low karst potential, as shown in **Attachment 1**.

Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as having Kimbrough Gravelly Loam, dry, 0 to 3 percent slopes, which is classified as a loam with a published soil profile of gravelly loam from the surface to 3 inches below ground surface (bgs), loam from 3 to 10 inches bgs, and cemented material from 10 to 80 inches bgs. The USDA NCRS Soil Map and soil profile are provided in **Attachment 1**.

Tetra Tech, Inc.

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Depth to Groundwater

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, zero (0) water wells are within ½-mile of the site. Using groundwater level data over 25 years old, the average depth to groundwater is estimated to be 150 ft below the ground surface (bgs). The site characterization data is included in **Attachment 1**.

REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chloride in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site for groundwater not sufficiently proven as greater than 51 feet bgs are as follows:

Reclamation Requirements

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

INITIAL SITE ASSESSMENT

In 2020, on behalf of ConocoPhillips, Tetra Tech identified the release footprint using GPS coordinates contained within the available C-141 documentation in conjunction with a review of available aerial imagery. Historical aerial imagery from 2012 and 2014 indicated disturbed soils in the reported release vicinity. The disturbed areas are larger than the reported release extent. On behalf of COP, Tetra Tech conducted a visual Site inspection in June 2020. During this inspection, a lack of uniform vegetative cover was observed in the release area.

Site Assessment Sampling

Tetra Tech returned to the Site on behalf of COP in November and December 2020 to conduct soil sampling to achieve vertical and horizontal delineation of the release. A total of two (2) borings (BH-1 and BH-2) were installed using an air rotary drilling rig to depths of 20 feet bgs inside the release extent to achieve vertical delineation. A total of four (4) hand auger borings (AH-1 through AH-4) were advanced along the perimeter of the release extent to depths of 1 feet bgs. Soils at the Site consist of light brown to tan loose silty sands.

Soils were field screened for salinity using an ExTech EC400 ExStik and for volatile organics using a photoionization detector (PID) to determine sampling intervals. Eighteen (18) samples were collected from the six (6) borings (BH-1 and BH-2 and AH-1 through AH-4) and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Mount Juliet, Tennessee, for analysis of chloride by Method 300.0, BTEX by Method 8021B, and TPH by Method 8015M.

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Site Assessment Results

Results from the November and December 2020 soil sampling events are summarized in **Table 2**. The analytical results associated with the interior boring locations BH-1 and BH-2 reported TPH concentrations as greater than the TPH Reclamation Requirement (100 mg/kg) in the 0-1 foot bgs sample intervals. Additionally, the analytical results associated with the 2-3 foot bgs sample interval at boring location BH-1 reported concentrations of chloride as greater than the Reclamation Requirement (600 mg/kg). The AH-1 sample collected from the 0-1 foot bgs interval reported TPH at a concentration slightly greater than the Reclamation Requirement (100 mg/kg). As this boring is located in an active lease road necessary for production operations, the Site remediation RRALs were proposed to apply. No other analytical results reported constituent concentrations as greater than Site Reclamation Requirements for BTEX, TPH, or chloride and the release extent was horizontally and vertically delineated. Copies of the laboratory analytical reports, including chain-of-custody documentation, are provided in **Attachment 2**.

NMOCD-APPROVED REMEDIATION WORK PLAN

Based on the Site Assessment analytical results, Tetra Tech prepared a Remediation Work Plan on behalf of ConocoPhillips that proposed to remove the remaining impacted material as shown in **Figure 4**. Impacted soils were proposed to be excavated using heavy equipment to a depth of 4 feet bgs in the area around BH-1 and to a depth of 2 feet below the surrounding surface in the areas around BH-2 and east of BH-1 or until a representative sample from the walls and bottom of the excavation reported constituent concentrations below RRALs.

Excavated soils were proposed to be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples were to be collected to verify remedial activities and analyzed for TPH, BTEX, and chloride. Upon completion of remediation, the excavation was to be backfilled with clean material to surface grade. The impacted material to be remediated in the Remediation Work Plan was estimated to be approximately 1,395 cubic yards.

Alternative Confirmation Sampling Plan

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposed an alternative confirmation sampling plan for floor and sidewall samples to be representative of no more than approximately 500 square feet of excavated area for laboratory analysis of BTEX, TPH, and chloride. The NMOCD approved the alternative confirmation sampling plan on April 25, 2023, under the condition that sidewall and floor samples are representative of no more than approximately 400 square feet of excavated area.

NMOCD Remediation Work Plan Approval

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

- *"Please make sure the floor confirmation samples are delineated/excavated to meet closure criteria standards for proven depth to water determination."*
- *"When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided."*
- *"If evidence of depth to groundwater within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for groundwater at a depth of 50 feet or less."*
- *"The request for variance for an alternative confirmation sampling plan is approved with conditions. Confirmation sidewall and floor samples will be representative of no more than approximately 400 square ft of excavated area."*

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REMEDICATION AND CONFIRMATION SAMPLING

Excavation activities commenced on April 23, 2024, and concluded on May 10, 2024. Maverick's subcontractor, McNabb Partners (McNabb), used heavy equipment to excavate impacted soil from the remediation area to a maximum depth of 6 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.

McNabb excavated a total of 1,709 cubic yards of contaminated soil from an approximately 12,900-square-foot area and transported the soil to R360 Halfway Landfill and Disposal in Hobbs, New Mexico, for offsite disposal. Photographs of the final excavation are provided in **Attachment 3**.

Confirmation Sampling Notification

On April 17, 2024, Tetra Tech notified the NMOCD of the anticipated initial confirmation sampling through the submission of a C-141N Sampling Notification submissions in the NMOCD Permitting portal and provided subsequent C-141N Sampling Notification submissions through the NMOCD Permitting portal to cover anticipated confirmation sampling between April 23 and 26, 2024. Confirmation sampling at the Site was conducted between April 30 and May 10, 2024, as the start of Remediation at the Site was slightly delayed, and the excavation took longer than anticipated as the excavation had to be expanded deeper to achieve remediation requirements. Tetra Tech failed to update the previously submitted sampling notifications when the timing of the confirmation sampling was delayed. Tetra Tech respectfully requests a variance to 19.15.29.12(D)(1)(a) NMAC for the submittal of the final sampling notification.

Confirmation Sampling

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 49 final confirmation samples, including 35 five-point composite floor samples and 14 five-point composite side wall samples from the excavated areas. The remediation excavation confirmation sampling area comprised an approximately 12,900 square foot base and 1,650 square feet of sidewall for a total area of 14,550 square feet and a sampling density of approximately one confirmation sample per 297 square feet.

Recently, Tetra Tech was advised that the NMOCD will require sample collection times to be recorded on chain-of-custody documentation. Tetra Tech received this feedback from the NMOCD for the first time on August 5, 2024. Tetra Tech conducted this sampling before receiving feedback regarding sample time documentation, and therefore, sample times have not been recorded for submitted samples for this remediation.

Samples were submitted to Cardinal Laboratory in Hobbs, New Mexico, to analyze BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B. Laboratory analytical results for final confirmation samples reported concentrations of BTEX, TPH, and chloride as less than respective Reclamation Requirements demonstrating clean margins. Confirmation sample laboratory analytical results screened against Reclamation Requirements are summarized in **Table 3**, and laboratory analytical data packages, including chain of custody documentation remediation confirmation sampling, are included in **Attachment 2**. Confirmation sampling locations and excavation extents are shown in **Figure 5**.

Excavation Backfill

Between May 13 and 15, 2024, subsequent to the receipt of final confirmation sampling results, McNabb completed the backfilling of the excavated areas with 1,089 cubic yards of clean soil sourced from Caviness and Pierce Family Trust Pits. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Attachment 3**.

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Reclamation and Revegetation

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

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

CONCLUSION

Based on the confirmation sampling results, the impacted soil within the release footprint with concentrations greater than Reclamation Requirements has been removed and properly disposed of offsite, the excavated area has been backfilled with clean material, and excavated portions of the facility pad have been restored; therefore, Site remediation is complete. Revegetation for the pasture areas is in progress, and reclamation and revegetation of the facility pad areas will be conducted at the end-of-life of the Philmex 3 Battery. If you have any questions, please contact Chuck Terhune by email at Chuck.Terhune@tetrattech.com or by phone at (832) 252-2093.

Sincerely,



Chris Straub
Project Manager
Tetra Tech, Inc.



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

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

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LIST OF ATTACHMENTS

Figures

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment Map
- Figure 4 – Remediation Work Plan Approved Remediation Extent
- Figure 5 – Excavation Extents and Confirmation Sample Locations Map

Tables

- Table 1 – Boring Location Coordinates
- Table 2 – Summary of Analytical Results – Soil Assessment Sampling
- Table 3 – Summary of Analytical Results – Soil Confirmation Sampling

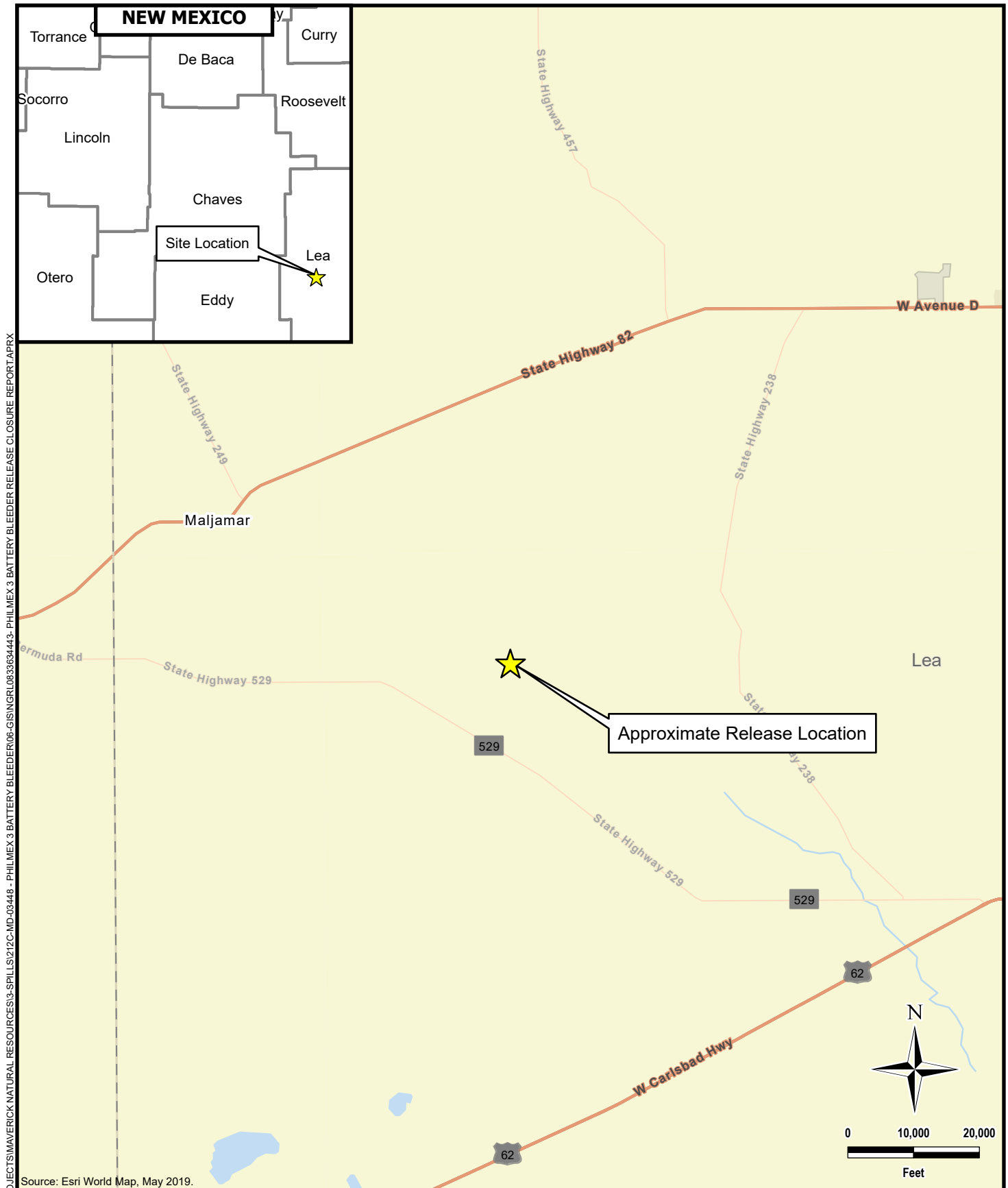
Attachments

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

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FIGURES



DOCUMENT PATH: S:\NEW PROJECTS\MAVERICK NATURAL RESOURCES\3-SPILLS\212C-MD-03448 - PHILIMEX 3 BATTERY BLEEDER RELEASE CLOSURE REPORT.APRX

Source: Esri World Map, May 2019.

MAVERICK
NATURAL RESOURCES



SITE LOCATION MAP
nGRL0833634443
PHILIMEX 3 BATTERY BLEEDER
(32.796567°, -103.618333°)
LEA COUNTY, NEW MEXICO

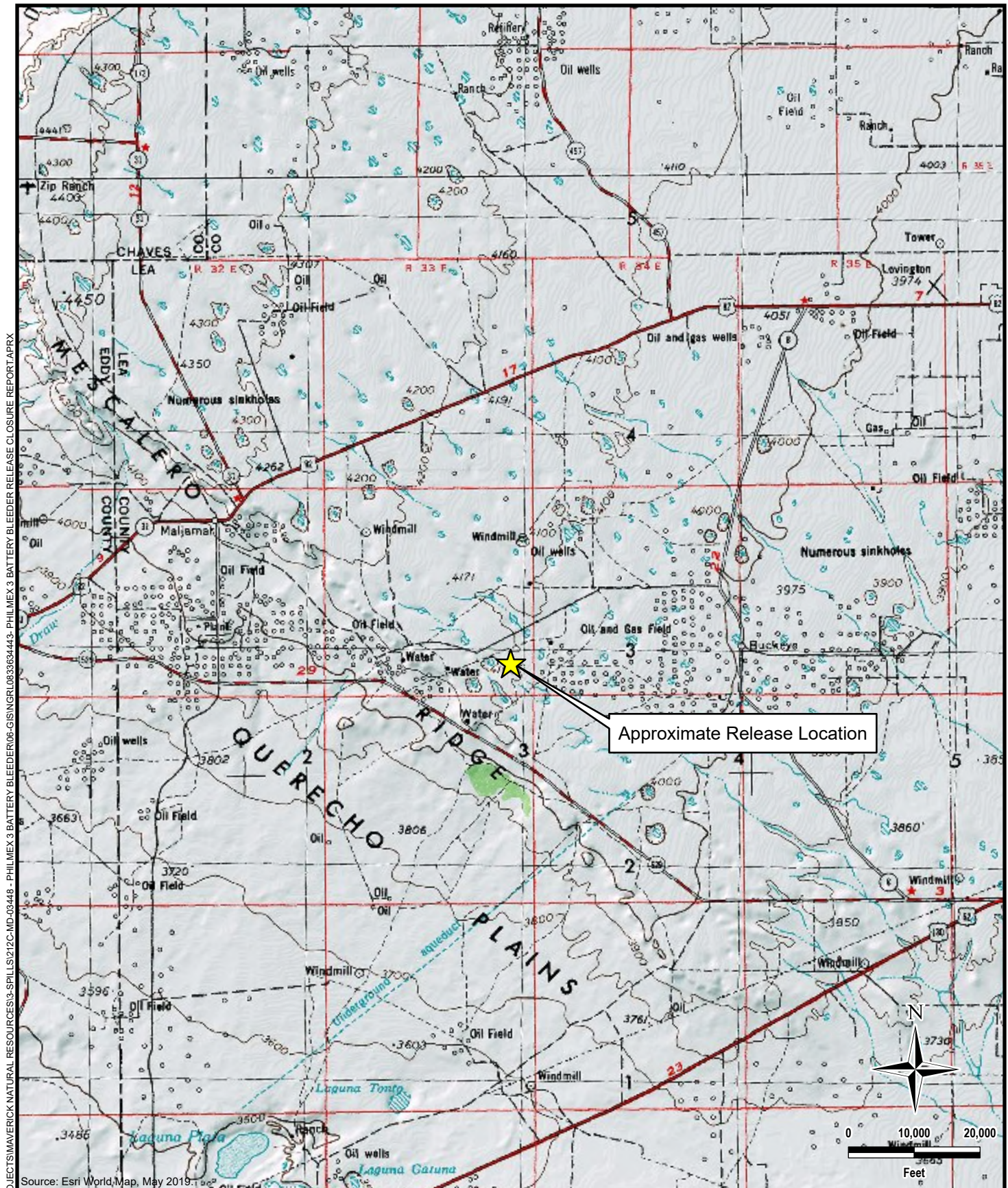
Figure No.

1

PROJECT NO.: 212C-MD-03448

DATE: 9/10/2024

DESIGNED BY: ACP



MAVERICK
NATURAL RESOURCES



TOPOGRAPHIC MAP

nGRL0833634443

PHILIMEX 3 BATTERY BLEEDER

(32.796567°, -103.618333°)
LEA COUNTY, NEW MEXICO

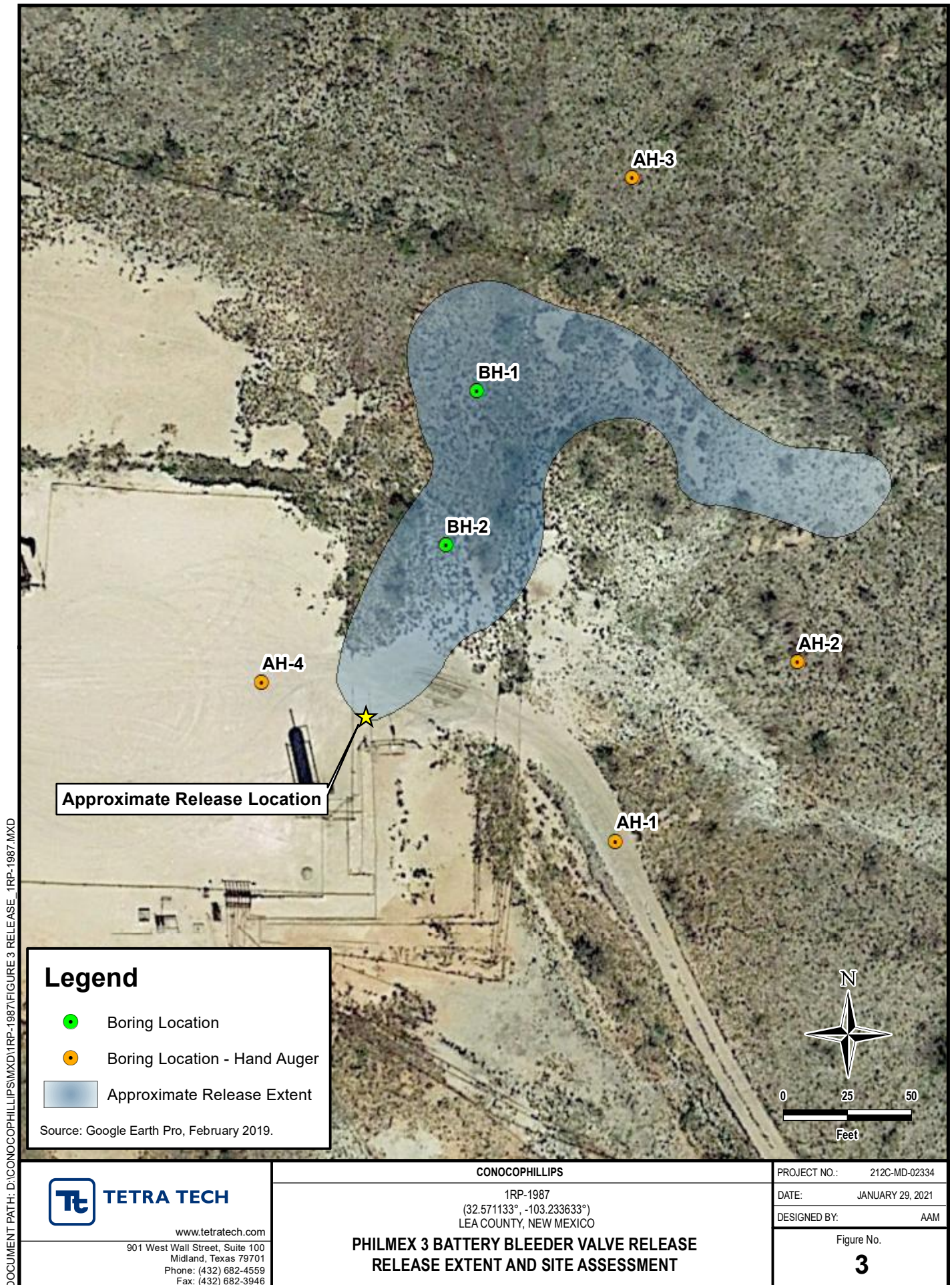
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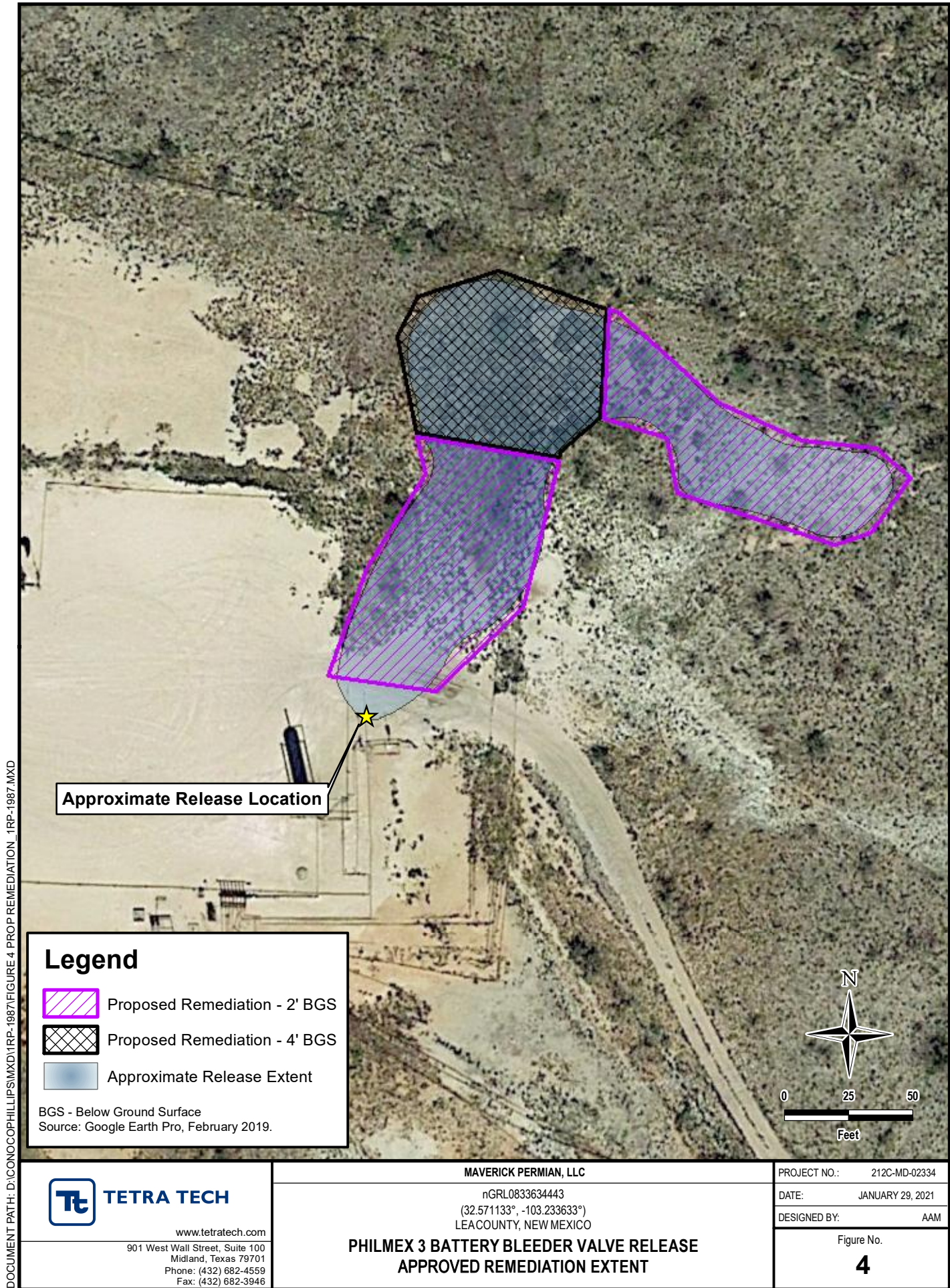
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PROJECT NO.: 212C-MD-03448

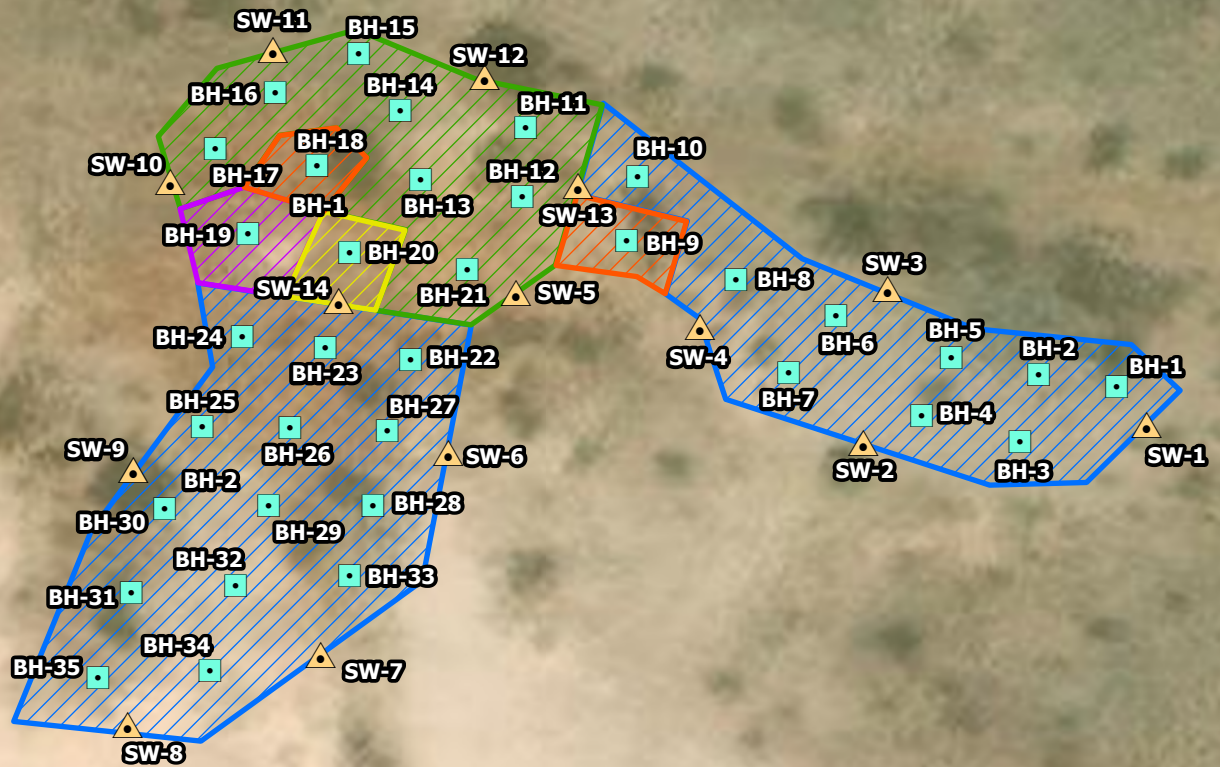
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DESIGNED BY: ACP





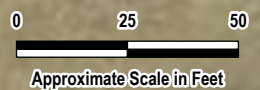
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Legend

- Floor Confirmation Sample
- ▲ Sidewall Confirmation Sample
- 6' Excavation
- 5' Excavation
- 5.5' Excavation
- 4' Excavation
- 2' Excavation

Source: Esri World Map, May 2019.



MAVERICK
NATURAL RESOURCES



REMEDIATION EXTENT AND CONFIRMATION SAMPLING

nGRL0833634443
PHILIMEX 3 BATTERY BLEEDER
(32.796567°, -103.618333°)
LEA COUNTY, NEW MEXICO

Figure No.

5

PROJECT NO.: 212C-MD-03448

DATE: 10/30/2024

DESIGNED BY: ACP

Remediation Report and Closure Request
Philmex 3 Battery Bleeder Release
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Maverick Permian, LLC
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TABLES



TABLE 1
SOIL ASSESSMENT LOCATIONS
INCIDENT NGRL0833634443
MAVERICK PERMIAN, LLC
PHILMEX 3 BATTERY BLEEDER RELEASE
LEA COUNTY, NEW MEXICO

Boring ID	Date	Latitude	Longitude
AH-1	12/2/2020	32.796408	-103.618013
AH-2	12/2/2020	32.796598	-103.617781
AH-3	12/2/2020	32.797118	-103.617986
AH-4	12/2/2020	32.796581	-103.618462
BH-1	11/11/2020	32.796891	-103.618186
BH-2	11/11/2020	32.796726	-103.618226



TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT SAMPLING - INCIDENT NGRL0833634443
MAVERICK PERMIAN, LLC
PHILMEX 3 BATTERY BLEEDER RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆			
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			600		10						50										100	
BH-1	11/16/2020	0 - 1	338		<0.00111		<0.00556		<0.00278		<0.00723		-		< 0.106		34.1		167		201.1	
	11/16/2020	2 - 3	943		<0.00110		<0.00549		<0.00274		<0.00714		-		0.0341	B J	2.3	J	10.6	B	12.9341	
	11/16/2020	4 - 5	613		<0.00107		<0.00533		<0.00266		<0.00693		-		0.0287	B J	< 4.13		0.957	B J	0.9857	
	11/16/2020	6 - 7	364		<0.00106		<0.00531		<0.00265		<0.0069		-		0.0268	B J	< 4.12		< 4.12		0.0268	
	11/16/2020	9 - 10	131		<0.00106		<0.00530		<0.00265		<0.0069		-		0.0279	B J	< 4.12		< 4.12		0.0279	
	11/16/2020	14 - 15	125		<0.00106		<0.00531		<0.00266		<0.00691		-		0.0305	B J	< 4.13		< 4.13		0.0305	
	11/16/2020	19 - 20	102		<0.00110		<0.00549		<0.00274		<0.00713		-		0.0287	B J	< 4.19		0.562	B J	0.5907	
BH-1	11/16/2020	0 - 1	10.1	J	<0.00105		<0.00524		<0.00262		0.00210	J	0.00210		0.0269	B J	38.2		190		228.2269	
	11/16/2020	2 - 3	34.1		<0.00107		<0.00535		<0.00267		<0.00695		-		0.0228	B J	< 4.14		8.2	B	8.2228	
	11/16/2020	4 - 5	330		<0.00108		<0.00539		<0.00269		<0.00700		-		0.025	B J	< 4.15		1.79	B J	1.815	
	11/16/2020	6 - 7	204		<0.00104		<0.00521		<0.00261		<0.00677		-		0.0235	B J	< 4.08		0.334	B J	0.3575	
	11/16/2020	9 - 10	163		<0.00106		<0.00528		<0.00264		<0.00686		-		0.0265	B J	< 4.11		1.44	B J	1.4665	
	11/16/2020	14 - 15	168		<0.00115		<0.00576		<0.00288		<0.00748		-		0.0248	B J	< 4.30		< 4.30		0.0248	
	11/16/2020	19 - 20	122		<0.00112		<0.00560		<0.00280		<0.00729		-		0.0258	B J	< 4.24		< 4.24		0.0258	
AH-1	12/2/2020	0 - 1	< 20.2		<0.00102		<0.00512		<0.00256		<0.00666		-		< 0.101		18.4		110		128.4	
AH-2	12/2/2020	0 - 1	< 20.3		<0.00103		<0.00516		<0.00258		<0.00671		-		0.164	B	4.27	B	14.8		19.234	
AH-3	12/2/2020	0 - 1	66.1		<0.00105		<0.00524		<0.00262		<0.00681		-		0.143		6.75	B	30		36.893	
AH-4	12/2/2020	0 - 1	10.2	J	<0.00101		<0.00507		<0.00254		<0.00660		-		< 0.101		17.7		70.5		88.2	

NOTES:

bgs: Below ground surface

GRO: Gasoline Range Organics

1: Method 300.0

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

mg/kg: Milligrams per kilogram

DRO: Diesel Range Organics

2: Method 8060B

Laterally or Vertically overexcavated and resampled.

TPH: Total Petroleum Hydrocarbons

ORO: Oil Range Organics

3: Method 8015D

B: The analyte was identified in the associated blank

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



TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SOIL CONFIRMATION SAMPLING - INCIDENT NGRL0833634443
MAVERICK PERMIAN, LLC
PHILMEX 3 BATTERY BLEEDER RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	Q	> C ₁₀ - C ₂₈	Q	> C ₂₈ - C ₃₆	Q		mg/kg
Reclamation Requirements (19.15.29 NMAC)			600		10								50								100	
BH - 1 (2.0')	4/30/2024	2.0 - 2.5	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 2 (2.0')	4/30/2024	2.0 - 2.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 3 (2.0')	4/30/2024	2.0 - 2.5	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 4 (2.0')	4/30/2024	2.0 - 2.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 5 (2.0')	4/30/2024	2.0 - 2.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 6 (2.0')	4/30/2024	2.0 - 2.5	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 7 (2.0')	4/30/2024	2.0 - 2.5	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 8 (2.0')	4/30/2024	2.0 - 2.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 9 (4')	5/3/2024	4.0 - 4.5	752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 9 (5)	5/7/2024	5.0 - 5.5	640		NA		NA		NA		NA		NA		NA		NA		NA		-	
BH 9 (6')	5/10/2024	6.0 - 6.5	400		NA		NA		NA		NA		NA		NA		NA		NA		-	
BH 10 (4')	5/3/2024	4.0 - 4.5	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 11 (4.0')	4/30/2024	4.0 - 4.5	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 12 (4.0')	4/30/2024	4.0 - 4.5	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 13 (4.0')	4/30/2024	4.0 - 4.5	592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 14 (4.0')	4/30/2024	4.0 - 4.5	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 15 (4')	5/3/2024	4.0 - 4.5	556		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 16 (4')	5/3/2024	4.0 - 4.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 17 (4')	5/3/2024	4.0 - 4.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		13.8		<10.0		13.8	
BH 18 (4')	5/3/2024	4.0 - 4.5	736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		15		<10.0		15	
BH 18 (5)	5/7/2024	5.0 - 5.5	976		NA		NA		NA		NA		NA		NA		NA		NA		-	
BH 18 (6')	5/10/2024	6.0 - 6.5	240		NA		NA		NA		NA		NA		NA		NA		NA		-	
BH 19 (4')	5/3/2024	4.0 - 4.5	992		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 19 (5)	5/7/2024	5.0 - 5.5	512		NA		NA		NA		NA		NA		NA		NA		NA		-	
BH 20	5/6/2024	4.0 - 4.5	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 20 (4.5)	5/7/2024	4.5 - 5.0	672		NA		NA		NA		NA		NA		NA		NA		NA		-	
BH 20 (5.5')	5/10/2024	5.5 - 6.0	320		NA		NA		NA		NA		NA		NA		NA		NA		-	
BH 21	5/6/2024	4.0 - 4.5	528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 22 (2')	5/3/2024	2.0 - 2.5	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 23 (2')	5/3/2024	2.0 - 2.5	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 24 (2')	5/3/2024	2.0 - 2.5	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 25 (2')	5/3/2024	2.0 - 2.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 26 (2')	5/3/2024	2.0 - 2.5	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		48.9		49.9		98.8	
BH 27 (2')	5/3/2024	2.0 - 2.5	128		NA		NA		NA		NA		NA		NA		NA		NA		-	
BH 28 (2')	5/3/2024	2.0 - 2.5	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 29 (2')	5/3/2024	2.0 - 2.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		11.4		<10.0		11.4	
BH 30 (2')	5/3/2024	2.0 - 2.5	160		<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 - INCIDENT NGRL0833634443
MAVERICK PERMIAN, LLC
PHILMEX 3 BATTERY BLEEDER RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		
Reclamation Requirements (19.15.29 NMAC)			600	Q	10	Q		Q		Q		Q	50	Q		Q		Q		Q	100	
BH 31 (2')	5/3/2024	2.0 - 2.5	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 32 (2')	5/3/2024	2.0 - 2.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.6		<10.0		10.6	
BH 33 (2')	5/3/2024	2.0 - 2.5	96		NA		NA		NA		NA		NA		NA		NA		NA		-	
BH 34 (2')	5/3/2024	2.0 - 2.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		15.5		15		30.5	
BH 35 (2')	5/3/2024	2.0 - 2.5	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 1	4/30/2024	0.0 - 2.0	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 2	4/30/2024	0.0 - 2.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 3	4/30/2024	0.0 - 2.0	112		NA		NA		NA		NA		NA		NA		NA		NA		-	
SW - 4	4/30/2024	0.0 - 2.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 5	5/6/2024	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 6	5/6/2024	0.0 - 2.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 7	5/6/2024	0.0 - 2.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 8	5/6/2024	0.0 - 2.0	720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 8	5/7/2024	0.0 - 2.0	64		NA		NA		NA		NA		NA		NA		NA		NA		-	
SW 9	5/6/2024	0.0 - 2.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 10	5/6/2024	0.0 - 6.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 11	5/6/2024	0.0 - 4.0	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 12	4/30/2024	0.0 - 4.0	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 13	4/30/2024	0.0 - 6.0	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 14	5/6/2024	0.0 - 5.5	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW 14	5/7/2024	0.0 - 5.5	48		NA		NA		NA		NA		NA		NA		NA		NA		-	

NOTES:

bgs: Below ground surface

mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

1: Method SM4500Cl-B

2: Method 8021B

3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).**Laterally or Vertically overexcavated and resampled.**

NA: Not Analyzed

Remediation Report and Closure Request
Philmex 3 Battery Bleeder Release
Incident ID# nGRL0833634443

Maverick Permian, LLC
October 31, 2024

ATTACHMENT 1 – SITE CHARACTERIZATION DATA

Philmex 3 Battery Bleeder Karst Potential Map



9/4/2024, 2:36:44 PM

Karst Occurrence Potential

High

Medium

Low

OCD Districts

PLSS Townships

1:288,895

0 2 4 8 mi
0 3.25 6.5 13 km

BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Earthstar Geographics, OCD, BLM

New Mexico Oil Conservation Division

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are
smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
L 02687		L	LE		NE	NE	36	17S	33E	630137.0	3629598.0 *		767			

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

Maximum Depth: 0 feet

Record Count: 1

Basin/County Search:

Basin: L

County: LE

UTM Filters (in meters):

Easting: 629370.183

Northing: 3629579.719

Radius: 000800

* 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.



Philmex 3 Battery Wetlands



October 29, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

National Flood Hazard Layer FIRMette



103°37'25"W 32°48'3"N



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

1:6,000

103°36'47"W 32°47'33"N

Released to Imaging: 11/1/2024 2:05:04 PM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



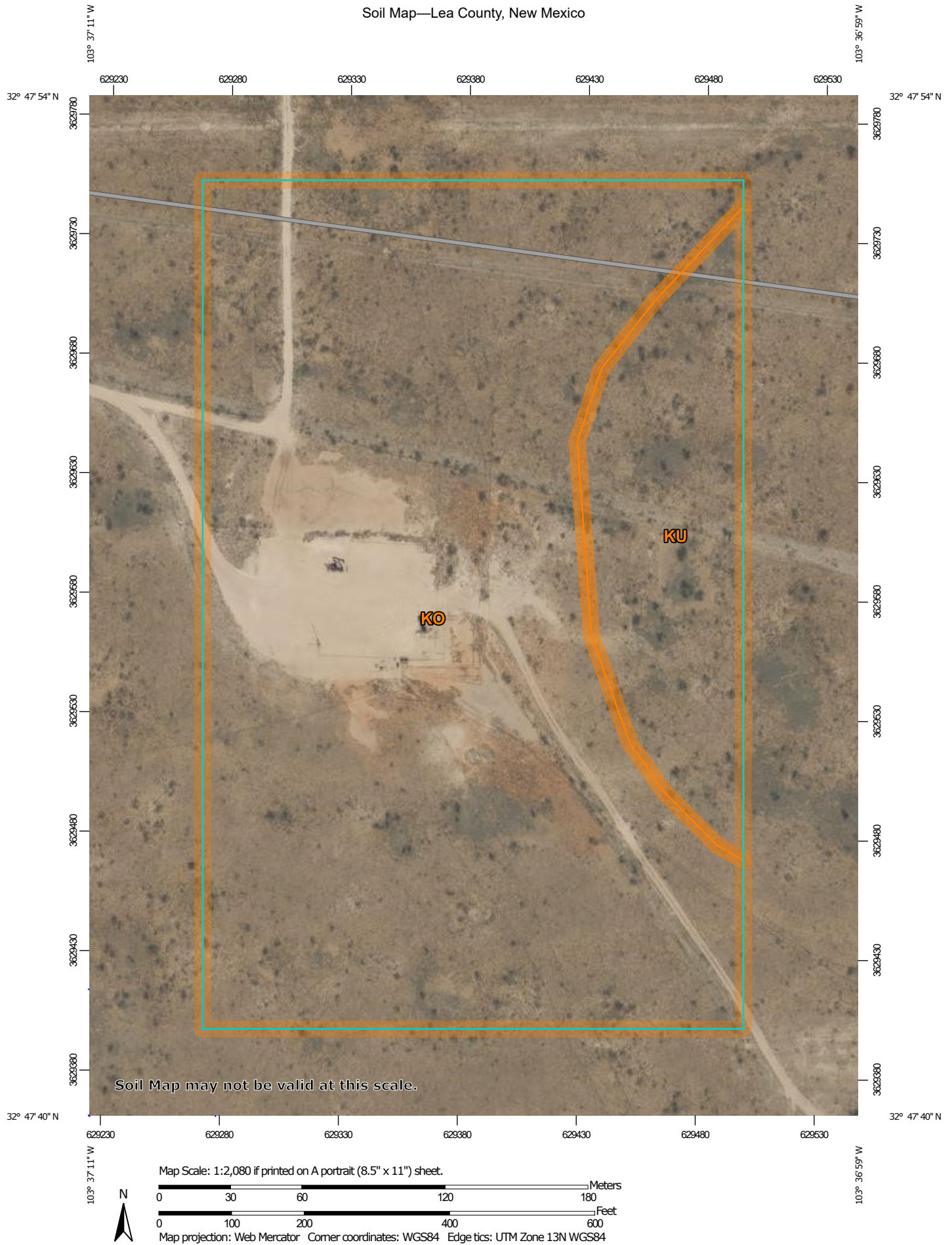
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/9/2024 at 12:08 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

9/6/2024
Page 1 of 3

Soil Map—Lea County, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

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

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

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



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KO	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	16.7	83.4%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	3.3	16.6%
Totals for Area of Interest		20.0	100.0%

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

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

Remediation Report and Closure Request
Philmex 3 Battery Bleeder Release
Incident ID# nGRL0833634443

Maverick Permian, LLC
October 31, 2024

ATTACHMENT 2 – LABORATORY ANALYTICAL DATA



ANALYTICAL REPORT

November 30, 2020

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc**ConocoPhillips - Tetra Tech**

Sample Delivery Group: L1286041
Samples Received: 11/14/2020
Project Number: 212C-MD-02334 TASK19
Description: Philmex Battery #3 Battery Bleeder Valve Release (IRP-1987)

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By:

Erica McNeese
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Cp: Cover Page	1	<div>¹Cp</div>
Tc: Table of Contents	2	
Ss: Sample Summary	3	<div>²Tc</div>
Cn: Case Narrative	6	
Sr: Sample Results	7	<div>³Ss</div>
BH-1 (0-1') L1286041-01	7	
BH-1 (2-3') L1286041-02	8	<div>⁴Cn</div>
BH-1 (4-5') L1286041-03	9	<div>⁵Sr</div>
BH-1 (6-7') L1286041-04	10	
BH-1 (9-10') L1286041-05	11	<div>⁶Qc</div>
BH-1 (14-15') L1286041-06	12	
BH-1 (19-20') L1286041-07	13	<div>⁷Gl</div>
BH-2 (0-1') L1286041-08	14	<div>⁸Al</div>
BH-2 (2-3') L1286041-09	15	
BH-2 (4-5') L1286041-10	16	<div>⁹Sc</div>
BH-2 (6-7') L1286041-11	17	
BH-2 (9-10') L1286041-12	18	
BH-2 (14-15') L1286041-13	19	
BH-2 (19-20') L1286041-14	20	
Qc: Quality Control Summary	21	
Total Solids by Method 2540 G-2011	21	
Wet Chemistry by Method 300.0	24	
Volatile Organic Compounds (GC) by Method 8015D/GRO	26	
Volatile Organic Compounds (GC/MS) by Method 8260B	28	
Semi-Volatile Organic Compounds (GC) by Method 8015	29	
Gl: Glossary of Terms	30	
Al: Accreditations & Locations	31	
Sc: Sample Chain of Custody	32	

BH-1 (0-1') L1286041-01 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 09:00

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579963	1	11/21/20 03:34	11/21/20 03:43	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1581719	5	11/24/20 11:31	11/24/20 15:23	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1580865	1	11/20/20 09:15	11/23/20 06:50	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 17:05	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 17:36	TJD	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

BH-1 (2-3') L1286041-02 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 09:10

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 15:33	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 05:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 17:24	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 17:09	TJD	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

BH-1 (4-5') L1286041-03 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 09:20

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 15:42	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 06:19	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 17:43	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 14:44	TJD	Mt. Juliet, TN

9Sc

BH-1 (6-7') L1286041-04 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 09:30

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 15:52	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 06:39	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 18:02	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 14:57	TJD	Mt. Juliet, TN

BH-1 (9-10') L1286041-05 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 09:40

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 16:02	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 07:00	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 18:21	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 15:10	TJD	Mt. Juliet, TN

BH-1 (14-15') L1286041-06 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 10:00

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 16:30	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 07:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 18:40	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 15:23	TJD	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

BH-1 (19-20') L1286041-07 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 10:20

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 16:40	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 07:41	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 18:59	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 15:37	TJD	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

BH-2 (0-1') L1286041-08 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 11:00

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 16:49	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 08:02	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 20:35	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	2	11/24/20 09:24	11/24/20 18:16	TJD	Mt. Juliet, TN

9Sc

BH-2 (2-3') L1286041-09 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 11:10

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 16:59	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 08:22	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 20:54	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 17:23	TJD	Mt. Juliet, TN

BH-2 (4-5') L1286041-10 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 11:20

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 17:08	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 08:43	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 21:13	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 16:56	TJD	Mt. Juliet, TN

BH-2 (6-7') L1286041-11 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 11:30

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1582473	1	11/26/20 00:30	11/26/20 07:49	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 09:04	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 21:32	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 15:50	TJD	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

BH-2 (9-10') L1286041-12 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 11:40

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579966	1	11/21/20 01:57	11/21/20 02:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1582473	1	11/26/20 00:30	11/26/20 08:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 09:24	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 21:51	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 16:03	TJD	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

BH-2 (14-15') L1286041-13 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 11:50

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579966	1	11/21/20 01:57	11/21/20 02:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1582473	1	11/26/20 00:30	11/26/20 08:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 09:45	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 22:10	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 16:17	TJD	Mt. Juliet, TN

9Sc

BH-2 (19-20') L1286041-14 Solid

Collected by
Joe Tyler

Collected date/time
11/11/20 12:00

Received date/time
11/14/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579966	1	11/21/20 01:57	11/21/20 02:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1582473	1	11/26/20 00:30	11/26/20 08:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 10:05	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 22:29	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 16:30	TJD	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Erica McNeese
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 11/11/20 09:00

L1286041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.7		1	11/21/2020 03:43	WG1579963

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	338		48.6	106	5	11/24/2020 15:23	WG1581719

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.106	1	11/23/2020 06:50	WG1580865
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		11/23/2020 06:50	WG1580865

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000519	0.00111	1	11/22/2020 17:05	WG1580782
Toluene	U		0.00145	0.00556	1	11/22/2020 17:05	WG1580782
Ethylbenzene	U		0.000819	0.00278	1	11/22/2020 17:05	WG1580782
Total Xylenes	U		0.000978	0.00723	1	11/22/2020 17:05	WG1580782
(S) Toluene-d8	110			75.0-131		11/22/2020 17:05	WG1580782
(S) 4-Bromofluorobenzene	92.8			67.0-138		11/22/2020 17:05	WG1580782
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/22/2020 17:05	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	34.1		1.70	4.22	1	11/24/2020 17:36	WG1580903
C28-C40 Oil Range	167		0.289	4.22	1	11/24/2020 17:36	WG1580903
(S) o-Terphenyl	73.7			18.0-148		11/24/2020 17:36	WG1580903

Collected date/time: 11/11/20 09:10

L1286041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.3		1	11/21/2020 03:33	WG1579965

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	943		9.65	21.0	1	11/24/2020 15:33	WG1581719

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0341	B J	0.0228	0.105	1	11/24/2020 05:58	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		11/24/2020 05:58	WG1581215

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000513	0.00110	1	11/22/2020 17:24	WG1580782
Toluene	U		0.00143	0.00549	1	11/22/2020 17:24	WG1580782
Ethylbenzene	U		0.000809	0.00274	1	11/22/2020 17:24	WG1580782
Total Xylenes	U		0.000966	0.00714	1	11/22/2020 17:24	WG1580782
(S) Toluene-d8	111			75.0-131		11/22/2020 17:24	WG1580782
(S) 4-Bromofluorobenzene	88.7			67.0-138		11/22/2020 17:24	WG1580782
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/22/2020 17:24	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.30	J	1.69	4.20	1	11/24/2020 17:09	WG1580903
C28-C40 Oil Range	10.6	B	0.287	4.20	1	11/24/2020 17:09	WG1580903
(S) o-Terphenyl	81.6			18.0-148		11/24/2020 17:09	WG1580903

Collected date/time: 11/11/20 09:20

L1286041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	11/21/2020 03:33	WG1579965

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	613		9.50	20.7	1	11/24/2020 15:42	WG1581719

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0287	B J	0.0224	0.103	1	11/24/2020 06:19	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		11/24/2020 06:19	WG1581215

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000498	0.00107	1	11/22/2020 17:43	WG1580782
Toluene	U		0.00139	0.00533	1	11/22/2020 17:43	WG1580782
Ethylbenzene	U		0.000786	0.00266	1	11/22/2020 17:43	WG1580782
Total Xylenes	U		0.000938	0.00693	1	11/22/2020 17:43	WG1580782
(S) Toluene-d8	110			75.0-131		11/22/2020 17:43	WG1580782
(S) 4-Bromofluorobenzene	88.8			67.0-138		11/22/2020 17:43	WG1580782
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/22/2020 17:43	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.13	1	11/24/2020 14:44	WG1580903
C28-C40 Oil Range	0.957	B J	0.283	4.13	1	11/24/2020 14:44	WG1580903
(S) o-Terphenyl	82.5			18.0-148		11/24/2020 14:44	WG1580903

Collected date/time: 11/11/20 09:30

L1286041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.0		1	11/21/2020 03:33	WG1579965

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	364		9.48	20.6	1	11/24/2020 15:52	WG1581719

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0268	B J	0.0224	0.103	1	11/24/2020 06:39	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120		11/24/2020 06:39	WG1581215

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000496	0.00106	1	11/22/2020 18:02	WG1580782
Toluene	U		0.00138	0.00531	1	11/22/2020 18:02	WG1580782
Ethylbenzene	U		0.000783	0.00265	1	11/22/2020 18:02	WG1580782
Total Xylenes	U		0.000934	0.00690	1	11/22/2020 18:02	WG1580782
(S) Toluene-d8	111			75.0-131		11/22/2020 18:02	WG1580782
(S) 4-Bromofluorobenzene	92.4			67.0-138		11/22/2020 18:02	WG1580782
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2020 18:02	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.12	1	11/24/2020 14:57	WG1580903
C28-C40 Oil Range	U		0.282	4.12	1	11/24/2020 14:57	WG1580903
(S) o-Terphenyl	72.8			18.0-148		11/24/2020 14:57	WG1580903

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Collected date/time: 11/11/20 09:40

L1286041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.0		1	11/21/2020 03:33	WG1579965

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	131		9.48	20.6	1	11/24/2020 16:02	WG1581719

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0279	B J	0.0224	0.103	1	11/24/2020 07:00	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	93.8			77.0-120		11/24/2020 07:00	WG1581215

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000495	0.00106	1	11/22/2020 18:21	WG1580782
Toluene	U		0.00138	0.00530	1	11/22/2020 18:21	WG1580782
Ethylbenzene	U		0.000782	0.00265	1	11/22/2020 18:21	WG1580782
Total Xylenes	U		0.000934	0.00690	1	11/22/2020 18:21	WG1580782
(S) Toluene-d8	113			75.0-131		11/22/2020 18:21	WG1580782
(S) 4-Bromofluorobenzene	91.6			67.0-138		11/22/2020 18:21	WG1580782
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/22/2020 18:21	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.12	1	11/24/2020 15:10	WG1580903
C28-C40 Oil Range	U		0.282	4.12	1	11/24/2020 15:10	WG1580903
(S) o-Terphenyl	76.7			18.0-148		11/24/2020 15:10	WG1580903

Collected date/time: 11/11/20 10:00

L1286041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.0		1	11/21/2020 03:33	WG1579965

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	125		9.49	20.6	1	11/24/2020 16:30	WG1581719

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0305	B J	0.0224	0.103	1	11/24/2020 07:21	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	91.9			77.0-120		11/24/2020 07:21	WG1581215

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000496	0.00106	1	11/22/2020 18:40	WG1580782
Toluene	U		0.00138	0.00531	1	11/22/2020 18:40	WG1580782
Ethylbenzene	U		0.000783	0.00266	1	11/22/2020 18:40	WG1580782
Total Xylenes	U		0.000935	0.00691	1	11/22/2020 18:40	WG1580782
(S) Toluene-d8	112			75.0-131		11/22/2020 18:40	WG1580782
(S) 4-Bromofluorobenzene	89.3			67.0-138		11/22/2020 18:40	WG1580782
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/22/2020 18:40	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.13	1	11/24/2020 15:23	WG1580903
C28-C40 Oil Range	U		0.283	4.13	1	11/24/2020 15:23	WG1580903
(S) o-Terphenyl	80.7			18.0-148		11/24/2020 15:23	WG1580903

Collected date/time: 11/11/20 10:20

L1286041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.4		1	11/21/2020 03:33	WG1579965

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	102		9.65	21.0	1	11/24/2020 16:40	WG1581719

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0287	B J	0.0228	0.105	1	11/24/2020 07:41	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		11/24/2020 07:41	WG1581215

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000512	0.00110	1	11/22/2020 18:59	WG1580782
Toluene	U		0.00143	0.00549	1	11/22/2020 18:59	WG1580782
Ethylbenzene	U		0.000809	0.00274	1	11/22/2020 18:59	WG1580782
Total Xylenes	U		0.000966	0.00713	1	11/22/2020 18:59	WG1580782
(S) Toluene-d8	111			75.0-131		11/22/2020 18:59	WG1580782
(S) 4-Bromofluorobenzene	90.1			67.0-138		11/22/2020 18:59	WG1580782
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/22/2020 18:59	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.69	4.19	1	11/24/2020 15:37	WG1580903
C28-C40 Oil Range	0.562	B J	0.287	4.19	1	11/24/2020 15:37	WG1580903
(S) o-Terphenyl	81.0			18.0-148		11/24/2020 15:37	WG1580903

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.6		1	11/21/2020 03:33	WG1579965

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	10.1	J	9.42	20.5	1	11/24/2020 16:49	WG1581719

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0269	B J	0.0222	0.102	1	11/24/2020 08:02	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120		11/24/2020 08:02	WG1581215

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000490	0.00105	1	11/22/2020 20:35	WG1580782
Toluene	U		0.00136	0.00524	1	11/22/2020 20:35	WG1580782
Ethylbenzene	U		0.000773	0.00262	1	11/22/2020 20:35	WG1580782
Total Xylenes	0.00210	J	0.000923	0.00682	1	11/22/2020 20:35	WG1580782
(S) Toluene-d8	113			75.0-131		11/22/2020 20:35	WG1580782
(S) 4-Bromofluorobenzene	92.1			67.0-138		11/22/2020 20:35	WG1580782
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/22/2020 20:35	WG1580782

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	38.2		3.30	8.20	2	11/24/2020 18:16	WG1580903
C28-C40 Oil Range	190		0.561	8.20	2	11/24/2020 18:16	WG1580903
(S) o-Terphenyl	89.9			18.0-148		11/24/2020 18:16	WG1580903

Collected date/time: 11/11/20 11:10

L1286041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.7		1	11/21/2020 03:33	WG1579965

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	34.1		9.52	20.7	1	11/24/2020 16:59	WG1581719

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0228	B J	0.0224	0.103	1	11/24/2020 08:22	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		11/24/2020 08:22	WG1581215

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000499	0.00107	1	11/22/2020 20:54	WG1580782
Toluene	U		0.00139	0.00535	1	11/22/2020 20:54	WG1580782
Ethylbenzene	U		0.000788	0.00267	1	11/22/2020 20:54	WG1580782
Total Xylenes	U		0.000941	0.00695	1	11/22/2020 20:54	WG1580782
(S) Toluene-d8	113			75.0-131		11/22/2020 20:54	WG1580782
(S) 4-Bromofluorobenzene	91.8			67.0-138		11/22/2020 20:54	WG1580782
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2020 20:54	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.67	4.14	1	11/24/2020 17:23	WG1580903
C28-C40 Oil Range	8.20	B	0.283	4.14	1	11/24/2020 17:23	WG1580903
(S) o-Terphenyl	77.8			18.0-148		11/24/2020 17:23	WG1580903

Collected date/time: 11/11/20 11:20

L1286041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.3		1	11/21/2020 03:33	WG1579965

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	330		9.56	20.8	1	11/24/2020 17:08	WG1581719

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0250	B J	0.0225	0.104	1	11/24/2020 08:43	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		11/24/2020 08:43	WG1581215

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000503	0.00108	1	11/22/2020 21:13	WG1580782
Toluene	U		0.00140	0.00539	1	11/22/2020 21:13	WG1580782
Ethylbenzene	U		0.000794	0.00269	1	11/22/2020 21:13	WG1580782
Total Xylenes	U		0.000948	0.00700	1	11/22/2020 21:13	WG1580782
(S) Toluene-d8	110			75.0-131		11/22/2020 21:13	WG1580782
(S) 4-Bromofluorobenzene	89.3			67.0-138		11/22/2020 21:13	WG1580782
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2020 21:13	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.67	4.15	1	11/24/2020 16:56	WG1580903
C28-C40 Oil Range	1.79	B J	0.285	4.15	1	11/24/2020 16:56	WG1580903
(S) o-Terphenyl	65.0			18.0-148		11/24/2020 16:56	WG1580903

Collected date/time: 11/11/20 11:30

L1286041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.9		1	11/21/2020 03:33	WG1579965

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	204		9.39	20.4	1	11/26/2020 07:49	WG1582473

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0235	B J	0.0222	0.102	1	11/24/2020 09:04	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		11/24/2020 09:04	WG1581215

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000487	0.00104	1	11/22/2020 21:32	WG1580782
Toluene	U		0.00135	0.00521	1	11/22/2020 21:32	WG1580782
Ethylbenzene	U		0.000768	0.00261	1	11/22/2020 21:32	WG1580782
Total Xylenes	U		0.000917	0.00677	1	11/22/2020 21:32	WG1580782
(S) Toluene-d8	111			75.0-131		11/22/2020 21:32	WG1580782
(S) 4-Bromofluorobenzene	87.1			67.0-138		11/22/2020 21:32	WG1580782
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/22/2020 21:32	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.64	4.08	1	11/24/2020 15:50	WG1580903
C28-C40 Oil Range	0.334	B J	0.280	4.08	1	11/24/2020 15:50	WG1580903
(S) o-Terphenyl	75.7			18.0-148		11/24/2020 15:50	WG1580903

Collected date/time: 11/11/20 11:40

L1286041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.3		1	11/21/2020 02:17	WG1579966

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	163		9.45	20.6	1	11/26/2020 08:06	WG1582473

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0265	B J	0.0223	0.103	1	11/24/2020 09:24	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		11/24/2020 09:24	WG1581215

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00106	1	11/22/2020 21:51	WG1580782
Toluene	U		0.00137	0.00528	1	11/22/2020 21:51	WG1580782
Ethylbenzene	U		0.000778	0.00264	1	11/22/2020 21:51	WG1580782
Total Xylenes	U		0.000929	0.00686	1	11/22/2020 21:51	WG1580782
(S) Toluene-d8	110			75.0-131		11/22/2020 21:51	WG1580782
(S) 4-Bromofluorobenzene	89.8			67.0-138		11/22/2020 21:51	WG1580782
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2020 21:51	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.65	4.11	1	11/24/2020 16:03	WG1580903
C28-C40 Oil Range	1.44	B J	0.282	4.11	1	11/24/2020 16:03	WG1580903
(S) o-Terphenyl	75.1			18.0-148		11/24/2020 16:03	WG1580903

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.0		1	11/21/2020 02:17	WG1579966

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	168		9.89	21.5	1	11/26/2020 08:40	WG1582473

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0248	B J	0.0233	0.108	1	11/24/2020 09:45	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		11/24/2020 09:45	WG1581215

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000538	0.00115	1	11/22/2020 22:10	WG1580782
Toluene	U		0.00150	0.00576	1	11/22/2020 22:10	WG1580782
Ethylbenzene	U		0.000849	0.00288	1	11/22/2020 22:10	WG1580782
Total Xylenes	U		0.00101	0.00748	1	11/22/2020 22:10	WG1580782
(S) Toluene-d8	112			75.0-131		11/22/2020 22:10	WG1580782
(S) 4-Bromofluorobenzene	92.3			67.0-138		11/22/2020 22:10	WG1580782
(S) 1,2-Dichloroethane-d4	102			70.0-130		11/22/2020 22:10	WG1580782

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.73	4.30	1	11/24/2020 16:17	WG1580903
C28-C40 Oil Range	U		0.295	4.30	1	11/24/2020 16:17	WG1580903
(S) o-Terphenyl	79.3			18.0-148		11/24/2020 16:17	WG1580903

Collected date/time: 11/11/20 12:00

L1286041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.3		1	11/21/2020 02:17	WG1579966

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	122		9.76	21.2	1	11/26/2020 08:57	WG1582473

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0258	B J	0.0230	0.106	1	11/24/2020 10:05	WG1581215
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		11/24/2020 10:05	WG1581215

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000523	0.00112	1	11/22/2020 22:29	WG1580782
Toluene	U		0.00146	0.00560	1	11/22/2020 22:29	WG1580782
Ethylbenzene	U		0.000826	0.00280	1	11/22/2020 22:29	WG1580782
Total Xylenes	U		0.000986	0.00729	1	11/22/2020 22:29	WG1580782
(S) Toluene-d8	110			75.0-131		11/22/2020 22:29	WG1580782
(S) 4-Bromofluorobenzene	93.6			67.0-138		11/22/2020 22:29	WG1580782
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/22/2020 22:29	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.71	4.24	1	11/24/2020 16:30	WG1580903
C28-C40 Oil Range	U		0.291	4.24	1	11/24/2020 16:30	WG1580903
(S) o-Terphenyl	71.4			18.0-148		11/24/2020 16:30	WG1580903

Total Solids by Method 2540 G-2011 [L1286041-01](#)

Method Blank (MB)

(MB) R3595805-1 11/21/20 03:43

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1286037-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1286037-13 11/21/20 03:43 • (DUP) R3595805-3 11/21/20 03:43

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	95.8	95.6	1	0.169		10

Laboratory Control Sample (LCS)

(LCS) R3595805-2 11/21/20 03:43

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011 [L1286041-02,03,04,05,06,07,08,09,10,11](#)

Method Blank (MB)

(MB) R3595804-1 11/21/20 03:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00200			

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

L1286041-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1286041-02 11/21/20 03:33 • (DUP) R3595804-3 11/21/20 03:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	95.3	97.3	1	2.01		10

Laboratory Control Sample (LCS)

(LCS) R3595804-2 11/21/20 03:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	49.9	99.8	85.0-115	

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011 [L1286041-12,13,14](#)

Method Blank (MB)

(MB) R3595802-1 11/21/20 02:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

L1286041-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1286041-13 11/21/20 02:17 • (DUP) R3595802-3 11/21/20 02:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	93.0	93.1	1	0.153		10

Laboratory Control Sample (LCS)

(LCS) R3595802-2 11/21/20 02:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Wet Chemistry by Method 300.0

[L1286041-01,02,03,04,05,06,07,08,09,10](#)

Method Blank (MB)

(MB) R3597137-1 11/24/20 12:32

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1286037-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1286037-07 11/24/20 13:01 • (DUP) R3597137-3 11/24/20 13:10

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	35.3	35.7	1	0.947		20

L1286041-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1286041-10 11/24/20 17:08 • (DUP) R3597137-6 11/24/20 17:18

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	330	341	1	3.23		20

Laboratory Control Sample (LCS)

(LCS) R3597137-2 11/24/20 12:42

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	209	105	90.0-110	

L1286037-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1286037-12 11/24/20 13:58 • (MS) R3597137-4 11/24/20 14:07 • (MSD) R3597137-5 11/24/20 14:36

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	529	71.1	622	602	104	100	1	80.0-120			3.31	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Wet Chemistry by Method 300.0

L1286041-11,12,13,14

Method Blank (MB)

(MB) R3598352-1 11/26/20 07:15

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1286041-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1286041-12 11/26/20 08:06 • (DUP) R3598352-3 11/26/20 08:23

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	163	162	1	0.224		20

L1286608-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1286608-02 11/26/20 15:09 • (DUP) R3598352-6 11/26/20 15:26

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3598352-2 11/26/20 07:32

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	205	103	90.0-110	

L1286599-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1286599-01 11/26/20 11:29 • (MS) R3598352-4 11/26/20 11:46 • (MSD) R3598352-5 11/26/20 12:03

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	604	U	619	618	102	102	1	80.0-120			0.0952	20

Volatile Organic Compounds (GC) by Method 8015D/GRO [L1286041-01](#)

Method Blank (MB)

(MB) R3596550-3 11/23/20 04:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3596550-2 11/23/20 03:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.61	83.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			98.1	77.0-120	

L1286037-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1286037-16 11/23/20 06:28 • (MS) R3596550-6 11/23/20 13:46 • (MSD) R3596550-7 11/23/20 14:07

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.73	U	2.47	2.93	43.2	51.6	1.01	10.0-151			16.8	28
(S) a,a,a-Trifluorotoluene(FID)					101	101		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1286041-02,03,04,05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3596927-2 11/24/20 05:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0304	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3596927-1 11/24/20 04:21 • (LCSD) R3596927-3 11/24/20 13:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.42	6.36	117	116	72.0-127			0.939	20
(S) a,a,a-Trifluorotoluene(FID)				114	113	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1286041-01,02,03,04,05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3596257-3 11/22/20 14:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	112			75.0-131
(S) 4-Bromofluorobenzene	87.5			67.0-138
(S) 1,2-Dichloroethane-d4	101			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3596257-1 11/22/20 13:01 • (LCSD) R3596257-2 11/22/20 13:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.139	0.134	111	107	70.0-123			3.66	20
Ethylbenzene	0.125	0.133	0.137	106	110	74.0-126			2.96	20
Toluene	0.125	0.137	0.138	110	110	75.0-121			0.727	20
Xylenes, Total	0.375	0.403	0.384	107	102	72.0-127			4.83	20
(S) Toluene-d8				104	108	75.0-131				
(S) 4-Bromofluorobenzene				92.4	90.3	67.0-138				
(S) 1,2-Dichloroethane-d4				113	112	70.0-130				

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3597124-1 11/24/20 13:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	2.46	J	0.274	4.00
(S) o-Terphenyl	86.2			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3597124-2 11/24/20 13:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	45.3	90.6	50.0-150	
(S) o-Terphenyl			107	18.0-148	

L1286041-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1286041-01 11/24/20 17:36 • (MS) R3597124-3 11/24/20 17:49 • (MSD) R3597124-4 11/24/20 18:02

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	51.6	34.1	67.9	69.0	65.4	67.6	1	50.0-150			1.70	20
(S) o-Terphenyl					73.2	88.5		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gi
8	Al
9	Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN2000002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

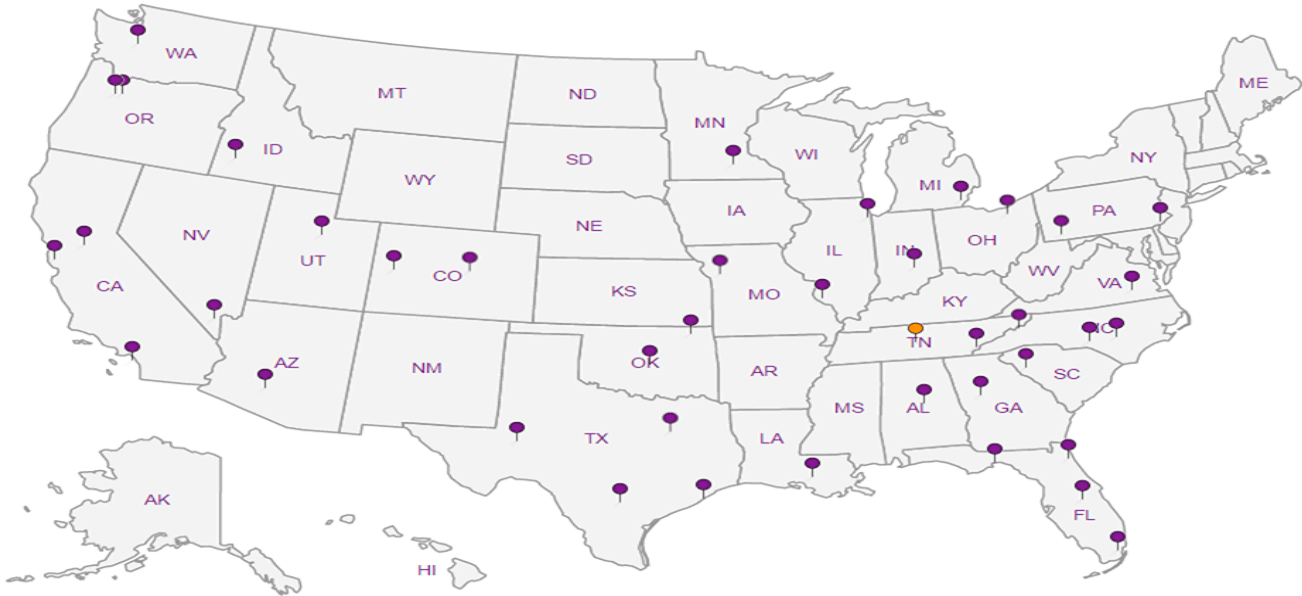
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Tetra Tech, Inc.

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

11286041

Client Name:	Conoco Phillips	Site Manager:	Christian Llull
Project Name:	Philmex Battery #3 Battery Bleeder Valve Release (1RP-1987)	Contact Info:	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02334, Task No. 19
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)																						
		YEAR: 2020		WATER	SOIL	HCL	HNO ₃	ICE	NONE			BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD	
		DATE	TIME																														
-01	BH-1 (0'-1')	11/11/20	900		X			X			1	N	X	X																			
-02	BH-1 (2'-3')	11/11/20	910		X			X			1	N	X	X													X						
-03	BH-1 (4'-5')	11/11/20	920		X			X			1	N	X	X													X						
-04	BH-1 (6'-7')	11/11/20	930		X			X			1	N	X	X													X						
-05	BH-1 (9'-10')	11/11/20	940		X			X			1	N	X	X													X						
-06	BH-1 (14'-15')	11/11/20	1000		X			X			1	N	X	X													X						
-07	BH-1 (19'-20')	11/11/20	1020		X			X			1	N	X	X													X						
-08	BH-2 (0'-1')	11/11/20	1100		X			X			1	N	X	X													X						
-09	BH-2 (2'-3')	11/11/20	1110		X			X			1	N	X	X													X						
-10	BH-2 (4'-5')	11/11/20	1120		X			X			1	N	X	X													X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	11-13-20	14:00		11-13-20	14:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	11-13-20	17:00	SWA	11-13-20	17:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
			B. Barro	11-14-20	1000

LAB USE ONLY
Sample Temperature

REMARKS:

☒ Standard

☐ RUSH: Same Day 24 hr. 48 hr. 72 hr.

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

A057

20-2

Page : 2 of 2

$$Z \pm 0 = 2 \text{ mm}$$

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: <u>COPTETRA</u>	<u>L1286041</u>		
Cooler Received/Opened On: <u>11 / 14 / 20</u>	Temperature: <u>.2</u>		
Received By: <u>Billy Barras</u>			
Signature: <u>B. Barras</u>			
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC Signed / Accurate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bottles arrive intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct bottles used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sufficient volume sent?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If Applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOA Zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preservation Correct / Checked?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



ANALYTICAL REPORT

December 17, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group: L1293319
Samples Received: 12/05/2020
Project Number: 212C-MD-02334 TASK19
Description: Philmex Battery #3 Battery Bleeder Valve Release (IRP-1987)

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Entire Report Reviewed By:

Chris McCord
Project Manager

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AH-1 (BH-5) (O'-1') L1293319-01 Solid

Collected by
Joe Tyler

Collected date/time
12/02/20 11:00

Received date/time
12/05/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591752	1	12/16/20 05:00	12/16/20 05:07	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1591069	1	12/15/20 13:32	12/16/20 00:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1590968	1	12/08/20 13:52	12/13/20 18:07	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1588717	1	12/08/20 13:52	12/09/20 05:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591819	1	12/14/20 23:14	12/15/20 07:56	JN	Mt. Juliet, TN

1

Cp

2

Tc

3

Ss

4

Cn

AH-2 (BH-4) (O'-1') L1293319-02 Solid

Collected by
Joe Tyler

Collected date/time
12/02/20 11:30

Received date/time
12/05/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591752	1	12/16/20 05:00	12/16/20 05:07	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1591069	1	12/15/20 13:32	12/16/20 01:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1591714	1	12/08/20 13:52	12/14/20 18:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1588717	1	12/08/20 13:52	12/09/20 05:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591819	1	12/14/20 23:14	12/16/20 21:10	TJD	Mt. Juliet, TN

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

AH-3 (BH-3) (O'-1') L1293319-03 Solid

Collected by
Joe Tyler

Collected date/time
12/02/20 12:00

Received date/time
12/05/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591752	1	12/16/20 05:00	12/16/20 05:07	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1591069	1	12/15/20 13:32	12/16/20 01:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1590968	1	12/08/20 13:52	12/13/20 18:49	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1588717	1	12/08/20 13:52	12/09/20 06:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591819	1	12/14/20 23:14	12/15/20 07:30	JN	Mt. Juliet, TN

AH-4 (BH-6) (O'-1') L1293319-04 Solid

Collected by
Joe Tyler

Collected date/time
12/02/20 12:30

Received date/time
12/05/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591752	1	12/16/20 05:00	12/16/20 05:07	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1591069	1	12/15/20 13:32	12/16/20 02:32	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1590968	1	12/08/20 13:52	12/13/20 19:10	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1588717	1	12/08/20 13:52	12/09/20 06:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591819	1	12/14/20 23:14	12/15/20 07:43	JN	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.8		1	12/16/2020 05:07	WG1591752

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.31	20.2	1	12/16/2020 00:54	WG1591069

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	12/13/2020 18:07	WG1590968
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120		12/13/2020 18:07	WG1590968

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000478	0.00102	1	12/09/2020 05:30	WG1588717
Toluene	U		0.00133	0.00512	1	12/09/2020 05:30	WG1588717
Ethylbenzene	U		0.000755	0.00256	1	12/09/2020 05:30	WG1588717
Total Xylenes	U		0.000901	0.00666	1	12/09/2020 05:30	WG1588717
(S) Toluene-d8	105			75.0-131		12/09/2020 05:30	WG1588717
(S) 4-Bromofluorobenzene	96.9			67.0-138		12/09/2020 05:30	WG1588717
(S) 1,2-Dichloroethane-d4	109			70.0-130		12/09/2020 05:30	WG1588717

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	18.4		1.63	4.05	1	12/15/2020 07:56	WG1591819
C28-C40 Oil Range	110		0.277	4.05	1	12/15/2020 07:56	WG1591819
(S) o-Terphenyl	63.4			18.0-148		12/15/2020 07:56	WG1591819

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.4		1	12/16/2020 05:07	WG1591752

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.35	20.3	1	12/16/2020 01:03	WG1591069

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.164	<u>B</u>	0.0221	0.102	1	12/14/2020 18:20	WG1591714
(S) a,a,a-Trifluorotoluene(FID)	92.8			77.0-120		12/14/2020 18:20	WG1591714

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000482	0.00103	1	12/09/2020 05:49	WG1588717
Toluene	U		0.00134	0.00516	1	12/09/2020 05:49	WG1588717
Ethylbenzene	U		0.000761	0.00258	1	12/09/2020 05:49	WG1588717
Total Xylenes	U		0.000909	0.00671	1	12/09/2020 05:49	WG1588717
(S) Toluene-d8	107			75.0-131		12/09/2020 05:49	WG1588717
(S) 4-Bromofluorobenzene	96.6			67.0-138		12/09/2020 05:49	WG1588717
(S) 1,2-Dichloroethane-d4	108			70.0-130		12/09/2020 05:49	WG1588717

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.27	<u>B</u>	1.64	4.07	1	12/16/2020 21:10	WG1591819
C28-C40 Oil Range	14.8		0.279	4.07	1	12/16/2020 21:10	WG1591819
(S) o-Terphenyl	84.3			18.0-148		12/16/2020 21:10	WG1591819

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.7		1	12/16/2020 05:07	WG1591752

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	66.1		9.42	20.5	1	12/16/2020 01:13	WG1591069

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.143		0.0222	0.102	1	12/13/2020 18:49	WG1590968
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120		12/13/2020 18:49	WG1590968

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000489	0.00105	1	12/09/2020 06:08	WG1588717
Toluene	U		0.00136	0.00524	1	12/09/2020 06:08	WG1588717
Ethylbenzene	U		0.000772	0.00262	1	12/09/2020 06:08	WG1588717
Total Xylenes	U		0.000922	0.00681	1	12/09/2020 06:08	WG1588717
(S) Toluene-d8	107			75.0-131		12/09/2020 06:08	WG1588717
(S) 4-Bromofluorobenzene	93.1			67.0-138		12/09/2020 06:08	WG1588717
(S) 1,2-Dichloroethane-d4	106			70.0-130		12/09/2020 06:08	WG1588717

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.75	<u>B</u>	1.65	4.09	1	12/15/2020 07:30	WG1591819
C28-C40 Oil Range	30.0		0.280	4.09	1	12/15/2020 07:30	WG1591819
(S) o-Terphenyl	75.3			18.0-148		12/15/2020 07:30	WG1591819

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.3		1	12/16/2020 05:07	WG1591752

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	10.2	J	9.27	20.1	1	12/16/2020 02:32	WG1591069

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	12/13/2020 19:10	WG1590968
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		12/13/2020 19:10	WG1590968

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000474	0.00101	1	12/09/2020 06:27	WG1588717
Toluene	U		0.00132	0.00507	1	12/09/2020 06:27	WG1588717
Ethylbenzene	U		0.000748	0.00254	1	12/09/2020 06:27	WG1588717
Total Xylenes	U		0.000893	0.00660	1	12/09/2020 06:27	WG1588717
(S) Toluene-d8	107			75.0-131		12/09/2020 06:27	WG1588717
(S) 4-Bromofluorobenzene	92.6			67.0-138		12/09/2020 06:27	WG1588717
(S) 1,2-Dichloroethane-d4	106			70.0-130		12/09/2020 06:27	WG1588717

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	17.7		1.62	4.03	1	12/15/2020 07:43	WG1591819
C28-C40 Oil Range	70.5		0.276	4.03	1	12/15/2020 07:43	WG1591819
(S) o-Terphenyl	64.4			18.0-148		12/15/2020 07:43	WG1591819

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

L1293319-01,02,03,04

Method Blank (MB)

(MB) R3604193-1 12/16/20 05:07

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1293318-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1293318-02 12/16/20 05:07 • (DUP) R3604193-3 12/16/20 05:07

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	95.9	96.2	1	0.332		10

Laboratory Control Sample (LCS)

(LCS) R3604193-2 12/16/20 05:07

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

 ${}^1\text{Cp}$ ${}^2\text{Tc}$ 3S_S ${}^4\text{Cn}$ ${}^5\text{Sr}$ ${}^6\text{Qc}$

GI

 ${}^8\text{Al}$ ⁹Sc

Wet Chemistry by Method 300.0 [L1293319-01,02,03,04](#)

Method Blank (MB)

(MB) R3603970-1 12/15/20 23:47				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1293317-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1293317-01 12/16/20 00:35 • (DUP) R3603970-5 12/16/20 00:44					
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP RPD Limits
Analyte	mg/kg	mg/kg		%	%
Chloride	U	U	1	0.000	20

L1293361-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1293361-02 12/16/20 04:25 • (DUP) R3603970-6 12/16/20 04:35					
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP RPD Limits
Analyte	mg/kg	mg/kg		%	%
Chloride	U	U	1	0.000	20

Laboratory Control Sample (LCS)

(LCS) R3603970-2 12/15/20 23:57					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	199	99.5	90.0-110	

L1293307-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1293307-01 12/16/20 00:06 • (MS) R3603970-3 12/16/20 00:16 • (MSD) R3603970-4 12/16/20 00:25												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	U	463	470	92.7	93.9	1	80.0-120			1.35	20

Volatile Organic Compounds (GC) by Method 8015D/GRO [L1293319-01,03,04](#)

Method Blank (MB)

(MB) R3603303-2 12/13/20 14:11				
Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	110			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3603303-1 12/13/20 13:30					
Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.49	99.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

L1293318-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1293318-02 12/13/20 17:05 • (MS) R3603303-3 12/13/20 23:21 • (MSD) R3603303-4 12/13/20 23:42												
Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.68	0.0250	1.78	2.03	30.9	35.0	1	10.0-151			13.1	28
(S) a,a,a-Trifluorotoluene(FID)					102	100		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

L1293319-02

Method Blank (MB)

(MB) R3603364-2 12/14/20 17:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0864	⌵	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3603364-1 12/14/20 15:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.04	91.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			104	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC/MS) by Method 8260B [L1293319-01,02,03,04](#)

Method Blank (MB)

(MB) R3601820-3 12/09/20 03:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	99.9			67.0-138
(S) 1,2-Dichloroethane-d4	113			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3601820-1 12/09/20 01:35 • (LCSD) R3601820-2 12/09/20 01:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.145	0.135	116	108	70.0-123			7.14	20
Ethylbenzene	0.125	0.132	0.129	106	103	74.0-126			2.30	20
Toluene	0.125	0.132	0.123	106	98.4	75.0-121			7.06	20
Xylenes, Total	0.375	0.395	0.383	105	102	72.0-127			3.08	20
(S) Toluene-d8				101	100	75.0-131				
(S) 4-Bromofluorobenzene				98.0	103	67.0-138				
(S) 1,2-Dichloroethane-d4				120	118	70.0-130				

Semi-Volatile Organic Compounds (GC) by Method 8015 L1293319-01,02,03,04

Method Blank (MB)

(MB) R3603881-1 12/15/20 04:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	1.65	J	1.61	4.00
C28-C40 Oil Range	0.338	J	0.274	4.00
(S) o-Terphenyl	75.2			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3603881-2 12/15/20 05:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	43.9	87.8	50.0-150	
(S) o-Terphenyl			95.9	18.0-148	

L1293318-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1293318-04 12/15/20 05:17 • (MS) R3603881-3 12/15/20 05:31 • (MSD) R3603881-4 12/15/20 05:44

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.7	U	41.8	41.6	82.6	82.2	1	50.0-150			0.485	20
(S) o-Terphenyl					86.5	85.7		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7G

8Al

9Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky ^{1 6}	KY90010
Kentucky ²	16
Louisiana	AI30792
Louisiana ¹	LA180010
Maine	TN00003
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN000032021-1
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	TN00003
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LA000356
South Carolina	84004
South Dakota	n/a
Tennessee ^{1 4}	2006
Texas	T104704245-20-18
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	998093910
Wyoming	A2LA

Third Party Federal Accreditations

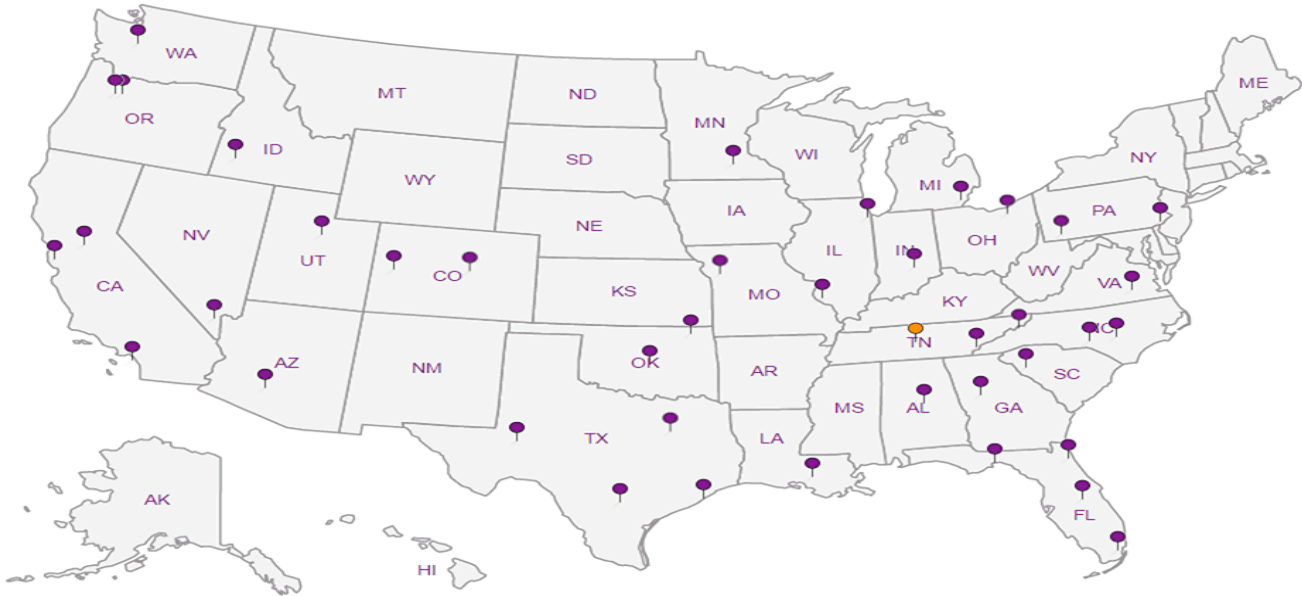
A2LA – ISO 17025	1461.01
A2LA – ISO 17025 ⁵	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP,LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

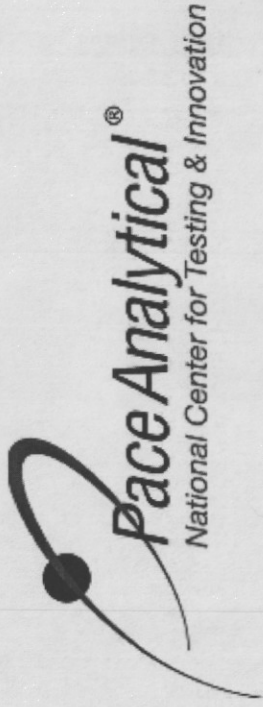
Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Matt Shacklock



Login #: L1293319	Client: COPTETRA	Date: 12/05/20	Evaluated by:
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Non-Conformance (check applicable items)

Sample Integrity	Chain of Custody Clarification	If Broken Container:
Parameter(s) past holding time	Login Clarification Needed	Insufficient packing material around container
Temperature not in range	Chain of custody is incomplete	Insufficient packing material inside cooler
Improper container type	Please specify Metals requested.	Improper handling by carrier (FedEx / UPS / Couri
pH not in range.	Please specify TCLP requested.	Sample was frozen
Insufficient sample volume.	Received additional samples not listed on coc.	Container lid not intact
Sample is biphasic.	Sample ids on containers do not match ids on coc	If no Chain of Custody:
Vials received with headspace.	Trip Blank not received.	Received by:
Broken container	Client did not "X" analysis.	Date/Time:
Broken container:	Chain of Custody is missing	Temp./Cont. Rec./pH:
Sufficient sample remains		Carrier:
		Tracking#

Login Comments:

Client labeled samples as "HA- (PB-)" instead of "AH- (BH-)" . Logged per COC.

Client informed by:	Call	Email	Voice Mail	Date: 12/7/20	Time: 13:28
TSR Initials: CM	Client Contact:				

Login Instruction:

Keep as logged per COC.



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

May 06, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: PHILMEX 3 BATTERY BLEEDER

Enclosed are the results of analyses for samples received by the laboratory on 05/01/24 8:13.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/01/2024	Sampling Date:	04/30/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3 BATTERY BLEEDER	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03448	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH - 1 (2.0') (H242320-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86	
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12	
Total BTX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/01/2024	ND	448	112	400	6.90	

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	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 2 (2.0') (H242320-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86	
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/01/2024	ND	448	112	400	6.90	

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	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 3 (2.0') (H242320-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86	
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/01/2024	ND	448	112	400	6.90	

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	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 4 (2.0') (H242320-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86	
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/01/2024	ND	448	112	400	6.90	

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	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 55.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 5 (2.0') (H242320-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86	
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12	
Total BTEX	<0.300	0.300	05/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/01/2024	ND	448	112	400	6.90	

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	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 62.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 6 (2.0') (H242320-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86	
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/01/2024	ND	448	112	400	6.90	

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	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 7 (2.0') (H242320-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86	
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/01/2024	ND	448	112	400	6.90	

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	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 8 (2.0') (H242320-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86	
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/02/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 (H242320-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86		
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/01/2024	Sampling Date:	04/30/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3 BATTERY BLEEDER	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03448	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: SW - 2 (H242320-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86		
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 (H242320-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86		
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 4 (H242320-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86		
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 11 (4.0') (H242320-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2024	ND	2.13	106	2.00	1.86	
Toluene*	<0.050	0.050	05/01/2024	ND	2.22	111	2.00	2.57	
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.24	112	2.00	2.86	
Total Xylenes*	<0.150	0.150	05/01/2024	ND	6.80	113	6.00	2.12	
Total BTEX	<0.300	0.300	05/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/02/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	189	94.5	200	5.05	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	180	90.2	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 12 (4.0') (H242320-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2024	ND	2.10	105	2.00	0.734		
Toluene*	<0.050	0.050	05/01/2024	ND	2.06	103	2.00	1.00		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.01	101	2.00	0.957		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.91	98.4	6.00	0.973		
Total BTEX	<0.300	0.300	05/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.7	200	2.73	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	94.0	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 13 (4.0') (H242320-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/01/2024	ND	2.10	105	2.00	0.734		
Toluene*	<0.050	0.050	05/01/2024	ND	2.06	103	2.00	1.00		
Ethylbenzene*	<0.050	0.050	05/01/2024	ND	2.01	101	2.00	0.957		
Total Xylenes*	<0.150	0.150	05/01/2024	ND	5.91	98.4	6.00	0.973		
Total BTEX	<0.300	0.300	05/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.7	200	2.73	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	94.0	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 14 (4.0') (H242320-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.7	200	2.73	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	94.0	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 12 (H242320-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/02/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2024	ND	197	98.7	200	2.73	
DRO >C10-C28*	<10.0	10.0	05/01/2024	ND	188	94.0	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	05/01/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/01/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3 BATTERY BLEEDER
 Project Number: 212C-MD-03448
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 04/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 13 (H242320-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01	
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/02/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	197	98.7	200	2.73	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	188	94.0	200	6.29	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name: **Maverick** Site Manager: **Chuck Terhune**

Project Name: **Philmex 3 Battery Bleeder** (281) 755-8965

Project Location: **Lea County, NM** chuck.terhune@tetratech.com

Project #: **212C-MD-03448**

Invoice to: chuck.terhune@tetratech.com

Receiving Laboratory: **Cardinal Labs** Sampler Signature: **Miguel A. Flores**

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		CONTAINERS		FILTERED (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		YEAR: 2024		DATE	TIME	WATER	OIL	HCL	NO ₃	CE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

1	BH-1 (2.0')			4/30/2024		X			X																
2	BH-2 (2.0')			4/30/2024		X			X																
3	BH-3 (2.0')			4/30/2024		X			X																
4	BH-4 (2.0')			4/30/2024		X			X																
5	BH-5 (2.0')			4/30/2024		X			X																
6	BH-6 (2.0')			4/30/2024		X			X																
7	BH-7 (2.0')			4/30/2024		X			X																
8	BH-8 (2.0')			4/30/2024		X			X																
9	SW-1			4/30/2024		X			X																
10	SW-2			4/30/2024		X			X																

Inquired by: **Miguel A Flores** Date: **5/12/24** Time: **0813**

Inquired by: **Shodanquy** Date: **5-12-24** Time: **0813**

Received by: **5-12-24** Time: **0813**

Received by: **5-12-24** Time: **0813**

Sample Temperature: **5.4°C**

LAB USE ONLY

REMARKS: Standard

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY



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

May 06, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: PHILMEX 3

Enclosed are the results of analyses for samples received by the laboratory on 05/03/24 15:04.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/03/2024	Sampling Date:	05/03/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 25 (2') (H242414-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	1.96	98.0	2.00	1.16	
Toluene*	<0.050	0.050	05/03/2024	ND	1.97	98.3	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	1.98	98.9	2.00	1.59	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	5.75	95.8	6.00	1.42	
Total BTX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 26 (2') (H242414-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2024	ND	1.96	98.0	2.00	1.16		
Toluene*	<0.050	0.050	05/04/2024	ND	1.97	98.3	2.00	1.65		
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	1.98	98.9	2.00	1.59		
Total Xylenes*	<0.150	0.150	05/04/2024	ND	5.75	95.8	6.00	1.42		
Total BTEX	<0.300	0.300	05/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	48.9	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	49.9	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 27 (2') (H242414-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	1.96	98.0	2.00	1.16	
Toluene*	<0.050	0.050	05/04/2024	ND	1.97	98.3	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	1.98	98.9	2.00	1.59	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	5.75	95.8	6.00	1.42	
Total BTEX	<0.300	0.300	05/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 28 (2') (H242414-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/03/2024	Sampling Date:	05/03/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 29 (2') (H242414-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	11.4	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 30 (2') (H242414-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 31 (2') (H242414-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73		
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	05/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

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

Received:	05/03/2024	Sampling Date:	05/03/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 32 (2') (H242414-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	10.6	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 33 (2') (H242414-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/03/2024	Sampling Date:	05/03/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 34 (2') (H242414-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	15.5	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	15.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 9 (4') (H242414-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73		
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11		
Total BTEx	<0.300	0.300	05/03/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	05/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 10 (4') (H242414-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	05/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Analytical Results For:

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

Received:	05/03/2024	Sampling Date:	05/03/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 15 (4') (H242414-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEx	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	556	16.0	05/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/03/2024	Sampling Date:	05/03/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 16 (4') (H242414-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 17 (4') (H242414-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	13.8	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Analytical Results For:

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

Received:	05/03/2024	Sampling Date:	05/03/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 18 (4') (H242414-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	05/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	15.0	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 19 (4') (H242414-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	05/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 22 (2') (H242414-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/03/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/03/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	05/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/04/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/04/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/03/2024	Sampling Date:	05/03/2024
Reported:	05/06/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 23 (2') (H242414-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2024	ND	2.04	102	2.00	3.73		
Toluene*	<0.050	0.050	05/04/2024	ND	2.10	105	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.09	105	2.00	3.29		
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.36	106	6.00	3.11		
Total BTEX	<0.300	0.300	05/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	05/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/04/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/04/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 24 (2') (H242414-20)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2024	ND	2.04	102	2.00	3.73		
Toluene*	<0.050	0.050	05/04/2024	ND	2.10	105	2.00	3.71		
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.09	105	2.00	3.29		
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.36	106	6.00	3.11		
Total BTEX	<0.300	0.300	05/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	05/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2024	ND	238	119	200	1.75	
DRO >C10-C28*	<10.0	10.0	05/04/2024	ND	244	122	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	05/04/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/03/2024
 Reported: 05/06/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/03/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 35 (2') (H242414-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	2.04	102	2.00	3.73	
Toluene*	<0.050	0.050	05/04/2024	ND	2.10	105	2.00	3.71	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.09	105	2.00	3.29	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.36	106	6.00	3.11	
Total BTEX	<0.300	0.300	05/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/04/2024	ND	200	99.9	200	2.22	
DRO >C10-C28*	<10.0	10.0	05/04/2024	ND	196	98.1	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	05/04/2024	ND					

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tech Tech		P.O. #:		ANALYSIS REQUEST	
Project Manager: Chuck Treharne		Company: Maverick			
Address:		Attn: Boye W.			
City:		Address:			
Phone #:		City:			
Fax #:		State:			
Project #:		Zip:			
Project Name: Philmex 3		City:			
Project Location: Lea Co. NM		State:			
Sampler Name: AK		Phone #:			
Fax #:		Zip:			
FOR LAB USE ONLY		PRESERV		SAMPLING	
Lab I.D.		Sample I.D.			
1		B1 25 (2')			
2		B1 26 (2')			
3		B1 27 (2')			
4		B1 28 (2')			
5		B1 29 (2')			
6		B1 30 (2')			
7		B1 31 (2')			
8		B1 32 (2')			
9		B1 33 (2')			
10		B1 34 (2')			
		(G)RAB OR (C)OMP.			
		# CONTAINERS			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER:			
		ACID/BASE:			
		ICE / COOL			
		OTHER:			
		DATE			
		TIME			
		BTEX			
		Chloride			
		TPH			

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Relinquished By: **Chavez** Date: **5/3/24** Received By: **Chavez** Date: **5/3/24**

Delivered By: (Circle One) **Observed Temp. °C** **4.3** **Corrected Temp. °C** **4.3**

Sampler - UPS - Bus - Other: **Corrected Temp. °C** **4.3**

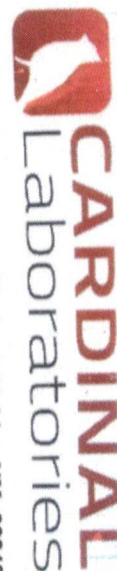
FORM 000-R 3-4 07/11/23

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

Turnaround Time: **Standard** ☒ **Rush** ☐ **Bacteria (only)** ☐ **Sample Condition** ☐ **Corrected Temp. °C**

Thermometer ID #140 **24** ☐ **Cool** ☐ **Intact** ☐ **Yes** ☐ **No** ☐ **Corrected Temp. °C**

REMARKS: **Adrian Garcia @ techtech, com**



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



ANALYSIS REQUEST

This image shows a single sheet of white paper with horizontal blue ruling lines. A vertical blue margin line runs down the right side of the page. The paper appears to be from a notebook or a set of loose-leaf papers. There are no markings, text, or drawings on the page.

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

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



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

May 07, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: PHILMEX 3

Enclosed are the results of analyses for samples received by the laboratory on 05/06/24 14:08.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/06/2024	Sampling Date:	05/06/2024
Reported:	05/07/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 20 (H242426-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2024	ND	1.94	96.8	2.00	1.95	
Toluene*	<0.050	0.050	05/06/2024	ND	2.00	100	2.00	0.755	
Ethylbenzene*	<0.050	0.050	05/06/2024	ND	2.05	102	2.00	0.210	
Total Xylenes*	<0.150	0.150	05/06/2024	ND	6.14	102	6.00	2.43	
Total BTX	<0.300	0.300	05/06/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	05/07/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2024	ND	210	105	200	0.109	
DRO >C10-C28*	<10.0	10.0	05/06/2024	ND	204	102	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/06/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/06/2024	Sampling Date:	05/06/2024
Reported:	05/07/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 21 (H242426-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/06/2024	ND	1.94	96.8	2.00	1.95		
Toluene*	<0.050	0.050	05/06/2024	ND	2.00	100	2.00	0.755		
Ethylbenzene*	<0.050	0.050	05/06/2024	ND	2.05	102	2.00	0.210		
Total Xylenes*	<0.150	0.150	05/06/2024	ND	6.14	102	6.00	2.43		
Total BTEX	<0.300	0.300	05/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/07/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2024	ND	210	105	200	0.109	
DRO >C10-C28*	<10.0	10.0	05/06/2024	ND	204	102	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/06/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2024
 Reported: 05/07/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 5 (H242426-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/06/2024	ND	1.94	96.8	2.00	1.95		
Toluene*	<0.050	0.050	05/06/2024	ND	2.00	100	2.00	0.755		
Ethylbenzene*	<0.050	0.050	05/06/2024	ND	2.05	102	2.00	0.210		
Total Xylenes*	<0.150	0.150	05/06/2024	ND	6.14	102	6.00	2.43		
Total BTEX	<0.300	0.300	05/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/07/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2024	ND	210	105	200	0.109	
DRO >C10-C28*	<10.0	10.0	05/06/2024	ND	204	102	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/06/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2024
 Reported: 05/07/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 6 (H242426-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2024	ND	1.94	96.8	2.00	1.95	
Toluene*	<0.050	0.050	05/06/2024	ND	2.00	100	2.00	0.755	
Ethylbenzene*	<0.050	0.050	05/06/2024	ND	2.05	102	2.00	0.210	
Total Xylenes*	<0.150	0.150	05/06/2024	ND	6.14	102	6.00	2.43	
Total BTEX	<0.300	0.300	05/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/07/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2024	ND	210	105	200	0.109	
DRO >C10-C28*	<10.0	10.0	05/06/2024	ND	204	102	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/06/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2024
 Reported: 05/07/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 7 (H242426-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2024	ND	1.94	96.8	2.00	1.95	
Toluene*	<0.050	0.050	05/06/2024	ND	2.00	100	2.00	0.755	
Ethylbenzene*	<0.050	0.050	05/06/2024	ND	2.05	102	2.00	0.210	
Total Xylenes*	<0.150	0.150	05/06/2024	ND	6.14	102	6.00	2.43	
Total BTEX	<0.300	0.300	05/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/07/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2024	ND	210	105	200	0.109	
DRO >C10-C28*	<10.0	10.0	05/06/2024	ND	204	102	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/06/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/06/2024	Sampling Date:	05/06/2024
Reported:	05/07/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: SW 8 (H242426-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/06/2024	ND	1.94	96.8	2.00	1.95		
Toluene*	<0.050	0.050	05/06/2024	ND	2.00	100	2.00	0.755		
Ethylbenzene*	<0.050	0.050	05/06/2024	ND	2.05	102	2.00	0.210		
Total Xylenes*	<0.150	0.150	05/06/2024	ND	6.14	102	6.00	2.43		
Total BTEX	<0.300	0.300	05/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	05/07/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2024	ND	210	105	200	0.109	
DRO >C10-C28*	<10.0	10.0	05/06/2024	ND	204	102	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/06/2024	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2024
 Reported: 05/07/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 9 (H242426-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/06/2024	ND	1.94	96.8	2.00	1.95		
Toluene*	<0.050	0.050	05/06/2024	ND	2.00	100	2.00	0.755		
Ethylbenzene*	<0.050	0.050	05/06/2024	ND	2.05	102	2.00	0.210		
Total Xylenes*	<0.150	0.150	05/06/2024	ND	6.14	102	6.00	2.43		
Total BTEX	<0.300	0.300	05/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/07/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2024	ND	210	105	200	0.109	
DRO >C10-C28*	<10.0	10.0	05/06/2024	ND	204	102	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/06/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2024
 Reported: 05/07/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 10 (H242426-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/06/2024	ND	1.94	96.8	2.00	1.95		
Toluene*	<0.050	0.050	05/06/2024	ND	2.00	100	2.00	0.755		
Ethylbenzene*	<0.050	0.050	05/06/2024	ND	2.05	102	2.00	0.210		
Total Xylenes*	<0.150	0.150	05/06/2024	ND	6.14	102	6.00	2.43		
Total BTEX	<0.300	0.300	05/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/07/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2024	ND	210	105	200	0.109	
DRO >C10-C28*	<10.0	10.0	05/06/2024	ND	204	102	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/06/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/06/2024	Sampling Date:	05/06/2024
Reported:	05/07/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: SW 11 (H242426-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/06/2024	ND	1.94	96.8	2.00	1.95		
Toluene*	<0.050	0.050	05/06/2024	ND	2.00	100	2.00	0.755		
Ethylbenzene*	<0.050	0.050	05/06/2024	ND	2.05	102	2.00	0.210		
Total Xylenes*	<0.150	0.150	05/06/2024	ND	6.14	102	6.00	2.43		
Total BTEX	<0.300	0.300	05/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	05/07/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2024	ND	210	105	200	0.109	
DRO >C10-C28*	<10.0	10.0	05/06/2024	ND	204	102	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/06/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/06/2024
 Reported: 05/07/2024
 Project Name: PHILMEX 3
 Project Number: NONE GIVEN
 Project Location: MAVERICK - LEA CO., NM

Sampling Date: 05/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 14 (H242426-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2024	ND	1.94	96.8	2.00	1.95	
Toluene*	<0.050	0.050	05/06/2024	ND	2.00	100	2.00	0.755	
Ethylbenzene*	<0.050	0.050	05/06/2024	ND	2.05	102	2.00	0.210	
Total Xylenes*	<0.150	0.150	05/06/2024	ND	6.14	102	6.00	2.43	
Total BTEX	<0.300	0.300	05/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	05/07/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/06/2024	ND	210	105	200	0.109	
DRO >C10-C28*	<10.0	10.0	05/06/2024	ND	204	102	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	05/06/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetatech Project Manager: Chuck Terne Address: City: Phone #: Project #: Project Name: Philmax 3 Project Location: Leach NM Sampler Name: Aq		P.O. #: Company: Maxende Attn: Bryce W. Address: City: State: Zip: Phone #: Fax #:	
FOR LAB USE ONLY		BILL TO	
Lab I.D. H242424 8H 20 SW 5 SW 6 SW 7 SW 8 SW 9 SW 10 SW 11 SW 14		ANALYSIS REQUEST	
Sample I.D.		DATE 5/6/24 TIME	
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		MATRIX PRESERV SAMPLING	
ACID/BASE: ICE / COOL OTHER:		BTEX TPH Chloride	
RECEIVED BY: <i>Spockiguel</i> DATE: 5/6/24 TIME: 1408		REMARKS: <i>adrian.garcia@tetatech.com</i>	
DELIVERED BY: (Circle One) Sampler - UPS - Bus - Other:		CHECKED BY: <i>SK</i> Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Turnaround Time: <i>24hr</i> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C: 34 Corrected Temp. °C:	
Relinquished By: <i>Adrian Garcia</i> Date: 5/6/24 Time: 1408		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:	

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



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

May 08, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: PHILMEX 3

Enclosed are the results of analyses for samples received by the laboratory on 05/07/24 16:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/07/2024	Sampling Date:	05/07/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 20 (4.5) (H242486-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	05/08/2024	ND	416	104	400	3.77	

Sample ID: SW 8 (H242486-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/08/2024	ND	416	104	400	3.77	

Sample ID: SW 14 (H242486-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/08/2024	ND	416	104	400	3.77	

Sample ID: BH 18 (5) (H242486-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	05/08/2024	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/07/2024	Sampling Date:	05/07/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 19 (5) (H242486-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	05/08/2024	ND	416	104	400	3.77	

Sample ID: BH 9 (5) (H242486-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	05/08/2024	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

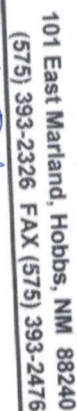
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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Page 5 of 5

Released to Imaging: 11/1/2024 2:05:04 PM



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

May 13, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: PHILMEX 3

Enclosed are the results of analyses for samples received by the laboratory on 05/10/24 14:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/10/2024	Sampling Date:	05/10/2024
Reported:	05/13/2024	Sampling Type:	Soil
Project Name:	PHILMEX 3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA CO., NM		

Sample ID: BH 18 (6') (H242575-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/13/2024	ND	432	108	400	0.00	

Sample ID: BH 9 (6') (H242575-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/13/2024	ND	432	108	400	0.00	

Sample ID: BH 20 (5.5') (H242575-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/13/2024	ND	432	108	400	0.00	

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tera Tech

Project Manager: Chuck Terhune

Address:

City: State: Zip:

Phone #: Fax #:

Project #: Project Owner:

Project Name: Philmus 3

Project Location:

Sampler Name: KA

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

HA18575
1 BH 18 (6')
2 BH 9 (6')
3 BH 20 (5.5')

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

MATRIX

PRESERV

SAMPLING

BILL TO

P.O. #:

Company: Maverick

Attn: Chuck Terhune

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Chloride

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:

REMARKS: adrian.garcia@teratech.com

Chris. Straub@teratech.com

Standard

☒

Bacteria (only) Sample Condition

Observed Temp. °C

Turnaround Time:

24 hr

Thermometer ID #140

Corrected Temp. °C

Relinquished By: [Signature]

Date: 5/10/24

Received By: [Signature]

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C: 2.2°C

Corrected Temp. °C:

Sample Condition

Cool Intact

Checked By: (Initials)

Yes

No

Yes

Observed Temp. °C

FORM 006 R 3-97 07/11/23

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

Remediation Report and Closure Request
Philmex 3 Battery Bleeder Release
Incident ID# nGRL0833634443

Maverick Permian, LLC
October 31, 2024

ATTACHMENT 3 – PHOTOGRAPHIC DOCUMENTATION



☀ 305°NW (T) ● 32.796747°N, 103.617645°W ±13ft ▲ 4101ft



Excavation at BH 1-10
Maverick

Philmex 3
06 May 2024, 11:36:12

S SW W NW
180 210 240 270 300 330

☀ 262°W (T) ● 32.796986°N, 103.617950°W ±13ft ▲ 4113ft



Excavation at 4'
Maverick

Philmex 3
06 May 2024, 11:37:18

☀ 137°SE (T) ● 32.796959°N, 103.617974°W ±49ft ▲ 4135ft



Excavation at 2'
Maverick

Philmex 3
06 May 2024, 11:37:31

SE

S

SW

W

120

150

180

210

240

270

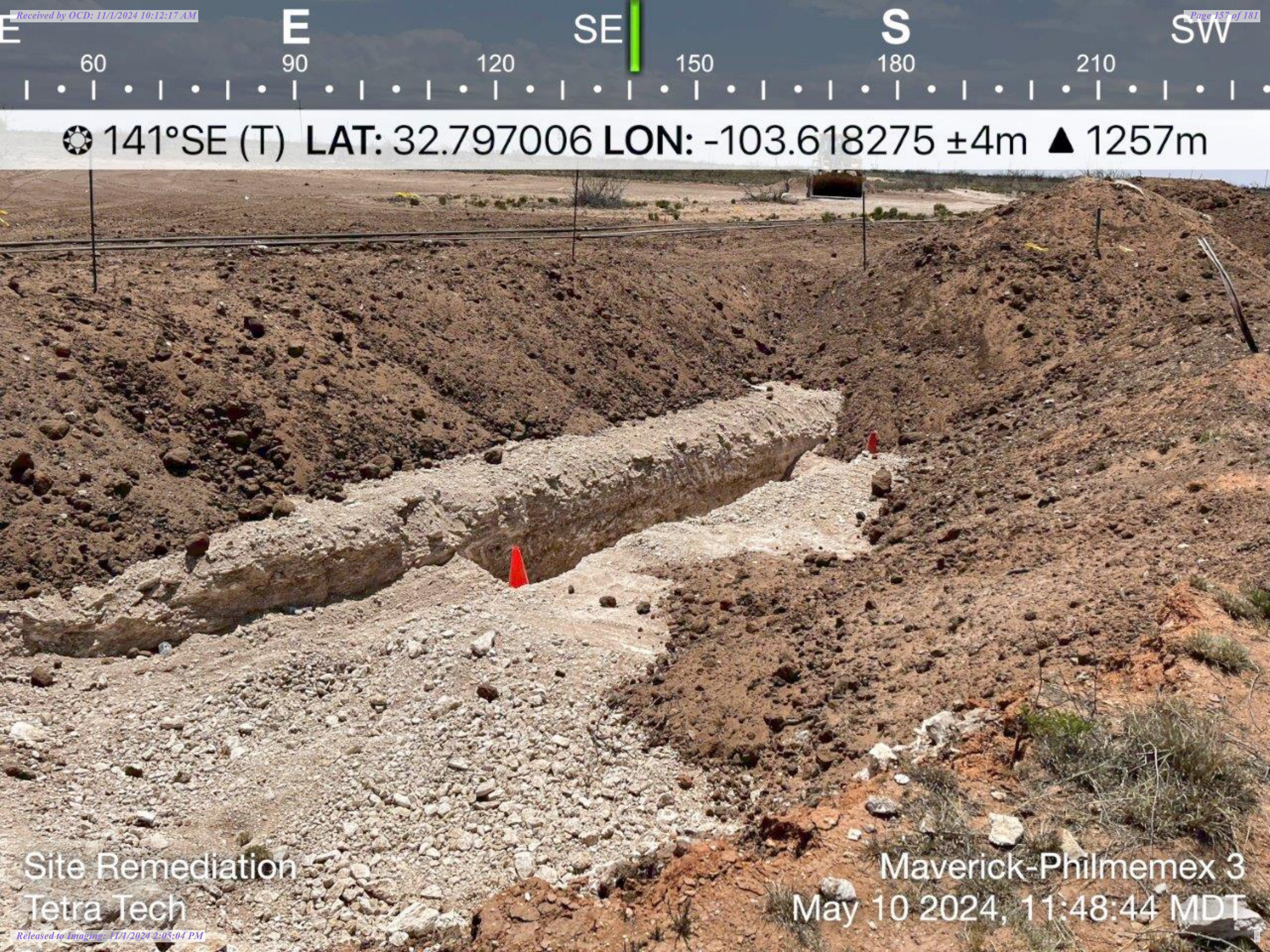
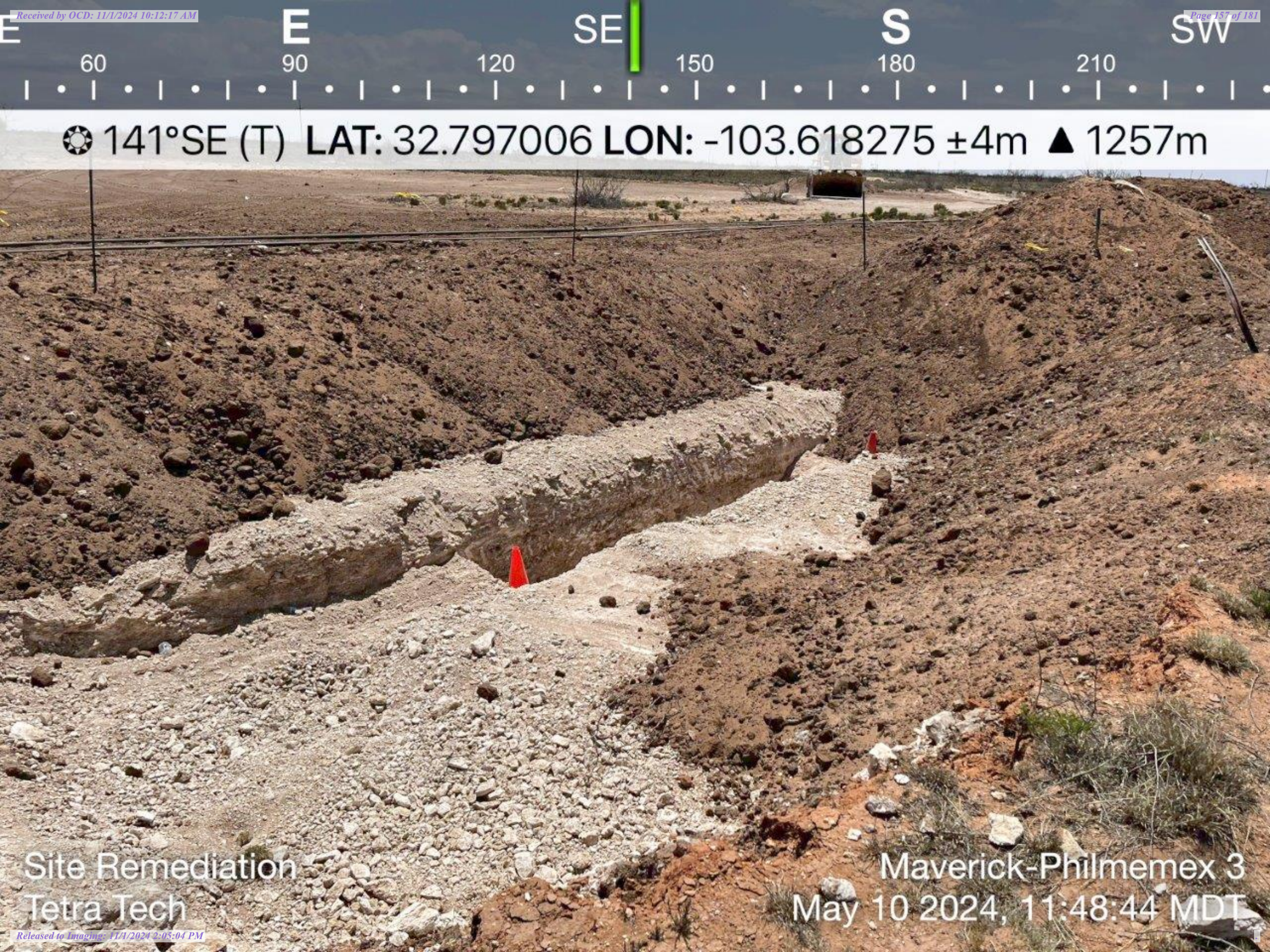
☉ 191°S (T) ● 32.796997°N, 103.618109°W ±13ft ▲ 4107ft



Excavation at 2'
Maverick

Philmex 3

06 May 2024, 11:37:55



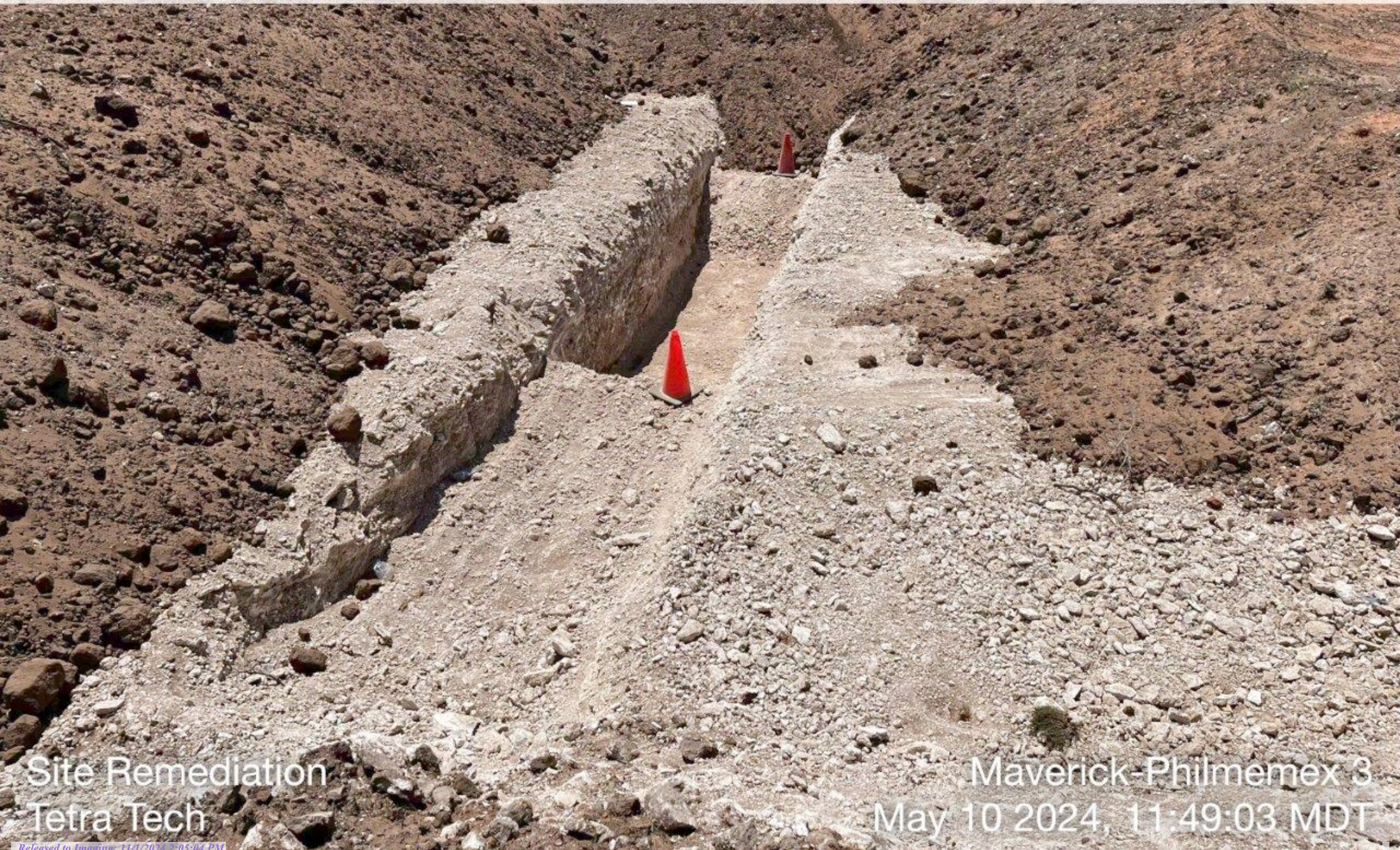
☉ 141°SE (T) LAT: 32.797006 LON: -103.618275 ±4m ▲ 1257m

Site Remediation
Tetra Tech

Maverick-Philmemex 3
May 10 2024, 11:48:44 MDT



☀ 170°S (T) LAT: 32.797028 LON: -103.618245 ±4m ▲ 1258m



Site Remediation
Tetra Tech

Maverick-Philmemex 3
May 10 2024, 11:49:03 MDT



E

SE

S

SW

W

90

120

150

180

210

240

270

☉ 178°S (T) LAT: 32.797047 LON: -103.618259 ±4m ▲ 1258m

Site Remediation
Tetra Tech

Maverick-Philmemex 3
May 10 2024, 11:49:13 MDT

E

SE

S

SW

90

120

150

180

210

240

☉ 162°S (T) LAT: 32.797032 LON: -103.618263 ±4m ▲ 1258m



Site Remediation
Tetra Tech

Maverick-Philmemex 3
May 10 2024, 11:49:26 MDT



☉ 304°NW (T) **LAT: 32.796762 LON: -103.617663 ±4m ▲ 1254m**

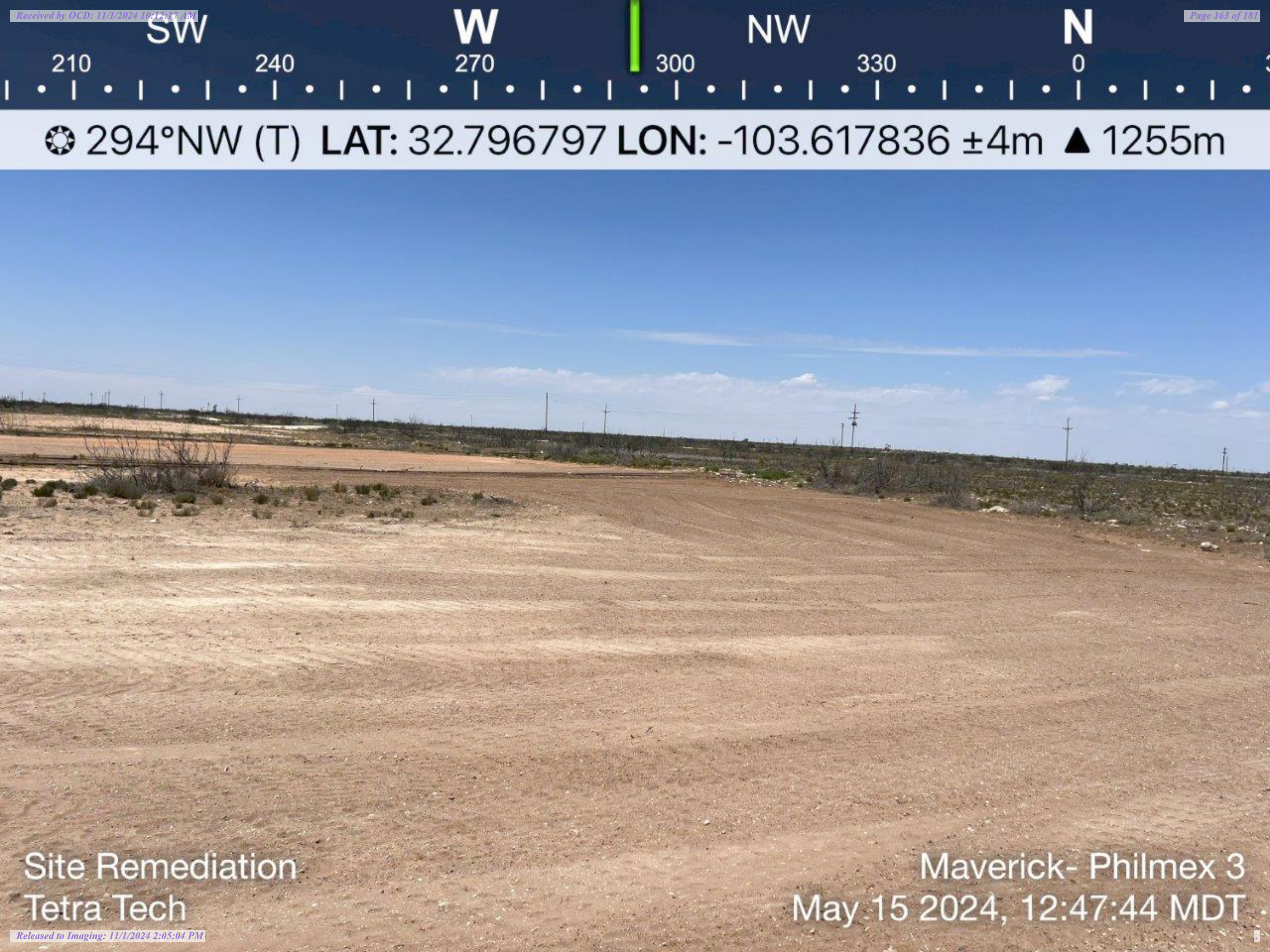
Site Remediation
Tetra Tech

Maverick- Philmex 3
May 15 2024, 12:47:08 MDT



Site Remediation
Tetra Tech

Maverick- Philmex 3
May 15 2024, 12:47:14 MDT



SW

W

NW

N

210

240

270

300

330

0

☉ 294°NW (T) LAT: 32.796797 LON: -103.617836 ±4m ▲ 1255m

Site Remediation
Tetra Tech

Maverick- Philmex 3
May 15 2024, 12:47:44 MDT

E

SE

S

60

90

120

150

180

☉ 123°SE (T) LAT: 32.796695 LON: -103.617998 ±3m ▲ 1252m



Site Remediation
Tetra Tech

Maverick- Philmex 3
May 15 2024,
12:48:12 MDT



W

NW

N

NE

240

270

300

330

0

30

60

☉ 333°NW (T) LAT: 32.796707 LON: -103.618055 ±3m ▲ 1257m

Site Remediation
Tetra Tech

Maverick- Philmex 3
May 15 2024, 12:48:21 MDT



NW

N

NE

E

300

330

0

30

60

90

☉ 8°N (T) LAT: 32.796502 LON: -103.618131 ±16m ▲ 1232m

Site Remediation
Tetra Tech

Maverick- Philmex 3
May 15 2024, 12:50:07 MDT

NW

N

NE

E

300

330

0

30

60

90

☀ 16°N (T) LAT: 32.796649 LON: -103.618257 ±3m ▲ 1256m



Site Remediation
Tetra Tech

Maverick- Philmex 3
May 15 2024, 12:50:15 MDT



☀ 94°E (T) LAT: 32.796721 LON: -103.618326 ±4m ▲ 1257m

Site Remediation
Tetra Tech

Maverick- Philmex 3
May 15 2024, 12:50:24 MDT



☉ 94°E (T) LAT: 32.796716 LON: -103.618328 ±4m ▲ 1258m

Site Remediation
Tetra Tech

Maverick- Philmex 3
May 15 2024, 12:50:29 MDT

NW

N

NE

E

300

330

0

30

60

90

☉ 17°N (T) **LAT: 32.796938 LON: -103.618285 ±3m ▲ 1257m**



Site Remediation
Tetra Tech

Maverick- Philmex 3
May 15 2024, 12:50:53 MDT



☉ 133°SE (T) **LAT:** 32.797005 **LON:** -103.618322 ±3m ▲ 1257m

Site Remediation
Tetra Tech

Maverick- Philmex 3
May 15 2024, 12:51:04 MDT

Remediation Report and Closure Request
Philmex 3 Battery Bleeder Release
Incident ID# nGRL0833634443

Maverick Permian, LLC
October 31, 2024

ATTACHMENT 4 – SEED MIXTURE

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

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

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

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



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

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

QUESTIONS

Action 398139

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	398139
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nGRL0833634443
Incident Name	NGRL0833634443 PHILMEX #018 @ 30-025-28829
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-28829] PHILMEX #018

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PHILMEX #018
Date Release Discovered	10/19/2008
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Other Dump Valve Crude Oil Released: 13 BBL Recovered: 12 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

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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 398139

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	398139
	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	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 11/01/2024
--	--

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

QUESTIONS, Page 3

Action 398139

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	398139
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	992
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	228.2
GRO+DRO	(EPA SW-846 Method 8015M)	38.2
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	04/23/2024
On what date will (or did) the final sampling or liner inspection occur	05/10/2024
On what date will (or was) the remediation complete(d)	05/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	10400
What is the estimated volume (in cubic yards) that will be reclaimed	1524
What is the estimated surface area (in square feet) that will be remediated	2500
What is the estimated volume (in cubic yards) that will be remediated	185

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

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

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Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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QUESTIONS, Page 4

Action 398139

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	398139
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 11/01/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 398139

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 398139
	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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QUESTIONS, Page 6

Action 398139

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	398139
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	334691
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/22/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	1600

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	2500
What was the total volume (cubic yards) remediated	185
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	10400
What was the total volume (in cubic yards) reclaimed	1524
Summarize any additional remediation activities not included by answers (above)	No Additional

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

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 11/01/2024
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QUESTIONS, Page 7

Action 398139

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 398139
	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 398139

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	398139
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	11/1/2024
amaxwell	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 the 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.	11/1/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The 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.	11/1/2024