



April 29, 2025

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

**Re: Remediation Report and Closure Report  
Maverick Permian, LLC  
Elvis Tank Battery Release  
Unit Letter F, Section 20, Township 17 South, Range 32 East  
Lea County, New Mexico  
Incident ID# nDHR1917849099**

Dear Sir or Madam,

ConocoPhillips initially contracted Tetra Tech, Inc. (Tetra Tech) to assess a historical release that occurred at the Elvis Tank Battery, at Unit Letter F, Section 20, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). The release occurred at coordinates 32.82216°, -103.79091°, as shown in **Figure 1** and **Figure 2**. Maverick Permian, LLC (Maverick) acquired this site from ConocoPhillips in 2022 and contracted 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 due to a tank overflow on June 3, 2019. The C-141 documents that approximately 5.1 barrels (bbls) of oil that was contained within the earthen berm of the tank battery. The release extent is shown in **Figure 3**. Approximately 3.7 bbls of rainwater and 1.3 bbls of oil were recovered with vac trucks during the initial response. Although there is no documentation of the recommended remedial actions, a review of aerial imagery from March 2012 revealed evidence of excavation activities in the area south of the well pad. New Mexico Oil Conservation Division (NMOCD) was notified of the release on June 12, 2019. NMOCD received the initial C-141 on June 18, 2019, and assigned the release Incident ID: nDHR1917849099.

## 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 Kermit soils and Dune land, 0 to 12 percent slopes, which is classified as a sand soil type with a published soil profile of fine sand from the surface to 0.67 feet below ground surface (bgs) and fine sand from 0.67 to 5 feet 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, there are no water wells within ½ mile of the Site. The search radius was expanded and based on available data from three (3) water wells within 2,400 meters (approximately 1.50 miles) of the Site, the average depth to groundwater is 85 feet below ground surface (bgs). The NMSSE data is included in **Attachment 1**.

As the available water level information is from wells farther than ½ mile away from the site, ConocoPhillips elected to drill a boring to verify the depth to groundwater. Tetra Tech and West Texas Water Well mobilized to the Site on May 18, 2021, to install Depth-To-Water (DTW) boring BG-1 to 55 feet bgs at 32.822481°, -103.791223°, approximately 35 feet from the earthen containment berm running along the edge of the Elvis Tank Battery pad.

A temporary monitoring well was set in BG-1 using 2-inch PVC well materials including 35 feet of blank casing and 20 feet of .010" machine slotted screen. The temporary well was left for 72 hours and remained dry. The temporary well materials were subsequently removed, and the borehole was plugged with 3/8" bentonite chips on May 21, 2021. The borehole location is presented in **Figure 3**, and the boring log is included in **Attachment 2**.

## 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 proven depth to water and distances to potential receptors, and in accordance with Table I of 19.15.29.12 NMAC, the following are the remediation RRALs for the Site for groundwater between 51 and 100 feet bgs:

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

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

Additionally, in accordance with the New Mexico Oil Conservation District (NMOCD) guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* dated September 6, 2019, the following Reclamation Requirements for surface soils (0-4 feet bgs) are as follows:

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### 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

Tetra Tech personnel mobilized to the Site on behalf of ConocoPhillips on February 18, 2020, to conduct soil Tetra Tech personnel mobilized to the Site on behalf of ConocoPhillips on February 18, 2020, to conduct soil sampling to achieve vertical and horizontal delineation of the release extent for full characterization. A total of five (5) soil borings (AH-1 through AH-5) five (5) soil borings (AH-1 through AH-5) were installed using a hand auger to define the extent of the release and to assess the extent of impacted soil. Soil boring AH-1 was installed south of the tank battery containment berm to a depth of 3 feet bgs. Borings AH-2 through AH-5 were installed within the lined containment berm, and soil samples were collected above the liner.

On February 25, 2020, A total of three (3) soil borings (BH-1 through BH-3) were installed to a depth of 7 feet bgs around the perimeter of the secondary containment to define the horizontal extent of the release. Additionally, two (2) hand auger soil borings (AH-6 and AH-7) were installed to a depth of 5 feet bgs to the west and northwest of the tank battery. Boring locations are shown in **Figure 3**.

A total of 20 soil samples were collected from the 10 boring locations from within and around the release area. Selected samples were field screened and submitted to an analytical laboratory to be analyzed for TPH by EPA method 8015 modified, BTEX by EPA Method 8260B, and chloride by EPA method 300.0. Copies of analytical reports and chain-of-custody documentation are included in Appendix C. The analytical results associated with sample locations within the containment berm (AH-2 through AH-4) were above the RRALs for TPH and/or chloride. However, the area within the containment berm has a liner at an approximate depth of 0.5 feet bgs. Analytical results from AH-5 were below the RRALs for TPH, BTEX, and chloride.

The analytical results associated with the perimeter boring locations (AH-1, AH-6, AH-7, BH-2, and BH-3) were below the RRALs for TPH, BTEX, and chloride with the exception of the 0-1' interval at BH-2, which was slightly above the most stringent RRAL for TPH in the top four feet with a result of 141 mg/kg. As the release footprint was limited to the interior of the containment berm, the TPH detection was on a caliche pad, and given the proximity of boring BH-2 to the onsite wellhead, the slight presence of TPH at the surface at BH-2 is assumed to be related to operating conditions or the result of routine production at the Site and unrelated to the 1RP-5578 release footprint. All other samples collected at BH-2 were well below the closure and reclamation criteria limits. The sample locations are shown in **Figure 3** and sample locations are detailed in **Table 1**. The results of the February 2020 sampling event are summarized in **Table 2**.

No soil samples were collected for analysis at soil boring location BH-1. The boring location was abandoned due to safety concerns for underground utilities and/or obstructions. Instead, soil boring AH-7 was installed west of BH-1 and samples were collected and analyzed to delineate the release to the west effectively horizontally. Photographic documentation of the assessment activities is included in **Attachment 3**. The soil boring logs containing soil descriptions are included in **Attachment 2**.

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## ADDITIONAL SITE ASSESSMENT SAMPLING

To meet the requirements of 19.15.29.11 NMAC and duly address the NMOCD rationale for rejection of the initial deferral request, Tetra Tech personnel conducted an additional Site assessment on March 11, 2022. The base course material was removed to demonstrate that no liner exists within the containment berm on the northern half of the battery. A total of one (1) soil boring (AH-22-1) was installed using a hand auger within the containment berm to a total depth of 12 feet bgs to achieve vertical delineation of the release extent. The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for BTEX, TPH, and chloride analysis. Copies of the analytical reports and chain-of-custody documentation are included in **Attachment 4**.

The results of the additional site delineation in February 2022 are summarized in **Table 2**. The sample location is shown in **Figure 3**. Analytical results associated with AH-22-1 reported chloride concentrations as greater than the RRAL from 9 to 10 feet bgs. The remainder of the analytical results from the February 2022 assessment were below the RRALS for all constituents analyzed. Vertical delineation of the release extent was achieved during this assessment.

## REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced on July 10, 2024, and concluded on July 19, 2024. Maverick's subcontractor, McNabb Partners (McNabb), used heavy equipment to excavate impacted soil from the remediation area to a maximum depth of 1.5 feet bgs. During excavation, a tank battery liner was encountered beneath the active tank battery, which was removed and disposed of. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed.

McNabb excavated 160 cubic yards of contaminated soil from an approximately 1,575-square-foot area and transported it to R360 Halfway Landfill and Disposal for off-site disposal. Photographs of the final excavation are provided in **Attachment 3**.

### Confirmation Sampling

Upon reaching the excavation's final lateral and vertical excavation extents, Tetra Tech collected 32 final confirmation samples, including 22 five-point composite floor samples and 10 five-point composite side wall samples from the excavated areas. The remediation excavation confirmation sampling area comprised an approximately 4,300 square foot base and 310 square feet of sidewall for a total area of 4,610 square feet and a sampling density of roughly one confirmation sample per 144 square feet.

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.

Initial base confirmation samples collected from locations SP 1 and BH-8 (6") were over-excavated laterally and/or vertically and resampled on the following day due to chloride and/or Total TPH concentrations. Laboratory analytical results for final confirmation samples reported concentrations of BTEX, TPH, and chloride as less than the 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 for remediation confirmation sampling, are included in **Attachment 3**. Confirmation sampling locations and excavation extents are shown in **Figure 4**.



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## Excavation Backfill

Subsequent to receiving confirmation sample results, a new tank battery liner was installed before McNabb completed backfilling the excavated areas with approximately 150 cubic yards of clean soil and caliche sourced from Caviness Pit between June 20 and June 21, 2024. Photographic Documentation showing final grading after backfilling is provided in **Attachment 3**.

## Reclamation and Revegetation

No impacted surface areas were present off of the developed well pad; therefore, reclamation and revegetation were not conducted as part of this remediation. Reclamation and revegetation will be conducted in accordance with NMOCD and New Mexico State Land Office (NMSLO) requirements at the end of the life of the well pad, subsequent to well plugging and abandonment.

## DEFERRAL REQUEST

After the ConocoPhillips assessments, delineation, and remediation activities conducted at the Site, contamination remains at concentrations greater than RRALs at AH-22-1 from 9 to 10 feet bgs. AH-22-1 was drilled adjacent to storage tanks where excavation and remediation would cause a major facility deconstruction of the tank battery. Allowing this contaminated area to remain in place will not risk human health, the environment, or groundwater greater than 50 feet below the vertical delineation.

Removing the approximately 5,500 square foot area beneath the existing tank battery facility would require deconstruction of the tank battery facility and removal of storage tanks, constituting a major facility deconstruction. Maverick respectfully requests that the NMOCD approve a deferral of remediation in the area of the AH-22-1 Assessment location until the facility end-of-life, when the facility is decommissioned and the facility pad is reclaimed. **Figure 5** depicts the proposed lateral and vertical deferral extents with coordinates delineating the lateral boundaries. If the deferral request is approved, final remediation and reclamation shall occur in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the facility is taken out of service.

## 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 the surface of the well pad has been restored; therefore, Site remediation is complete. Reclamation and revegetation will be conducted at the end-of-life of the Elvis Tank Battery Site. If you have any questions concerning the remediation activities for the Site, please call me 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 – Excavation Extents and Confirmation Sample Locations Map  
Figure 5 – Remediation Deferral Location

### Tables

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

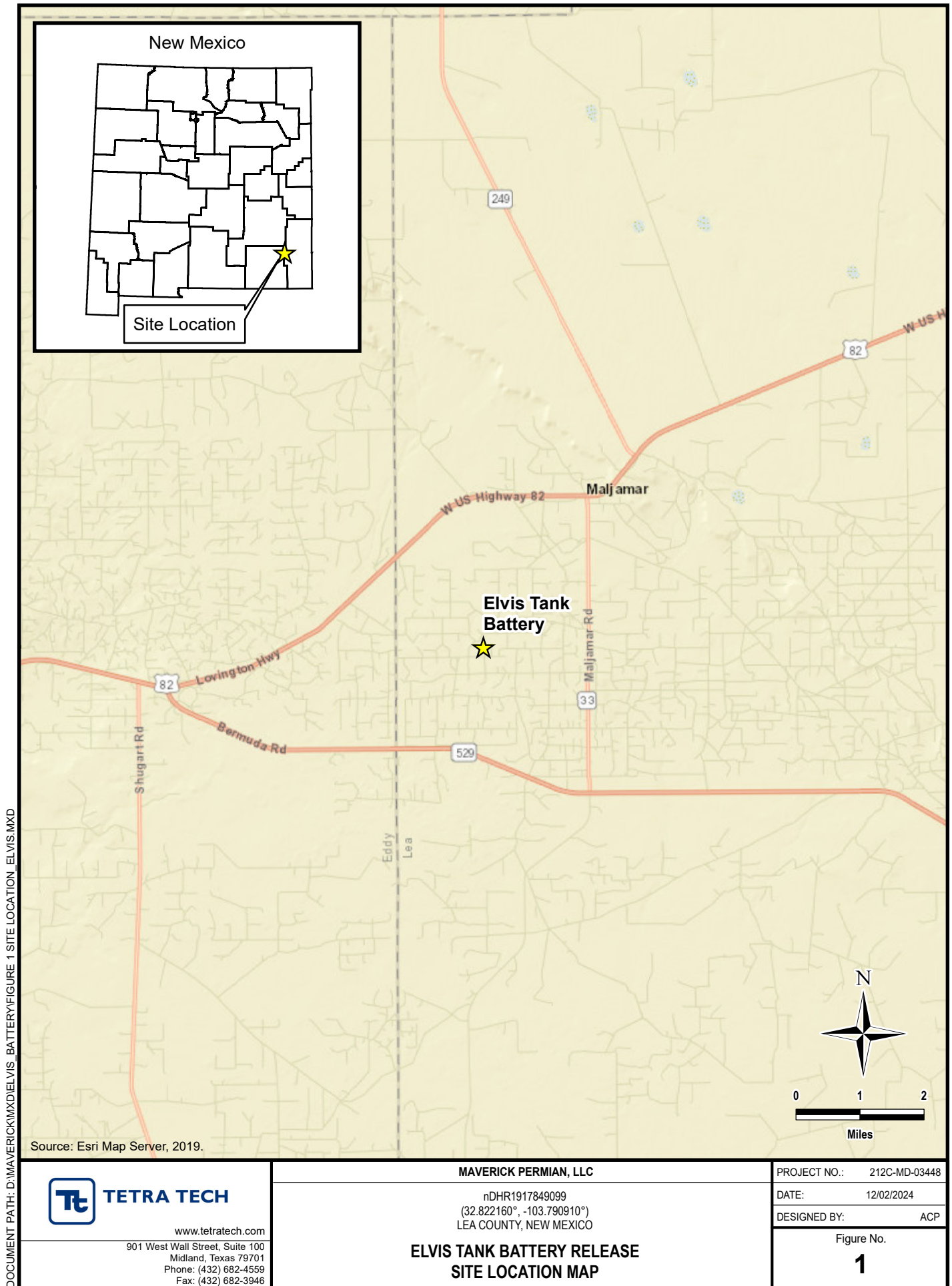
### Attachments

Attachment 1 – Site Characterization Data  
Attachment 2 – Borelogs  
Attachment 3 – Photographic Documentation  
Attachment 4 – Laboratory Analytical Data

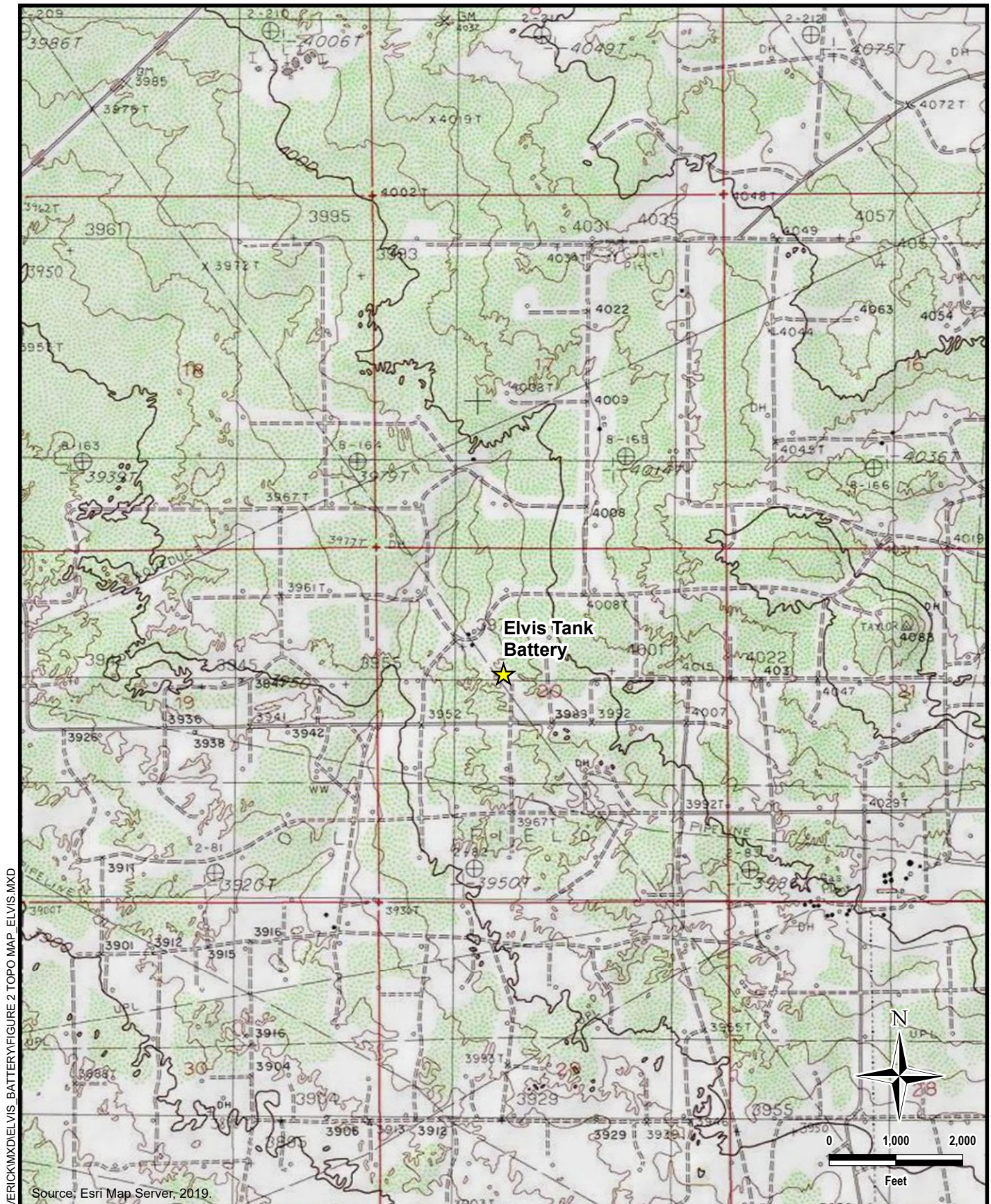
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## FIGURES







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**TETRA TECH**
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**MAVERICK PERMIAN, LLC**

 nDHR1917849099  
 (32.822160°, -103.790910°)  
 LEA COUNTY, NEW MEXICO

**ELVIS TANK BATTERY RELEASE  
 TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-03448

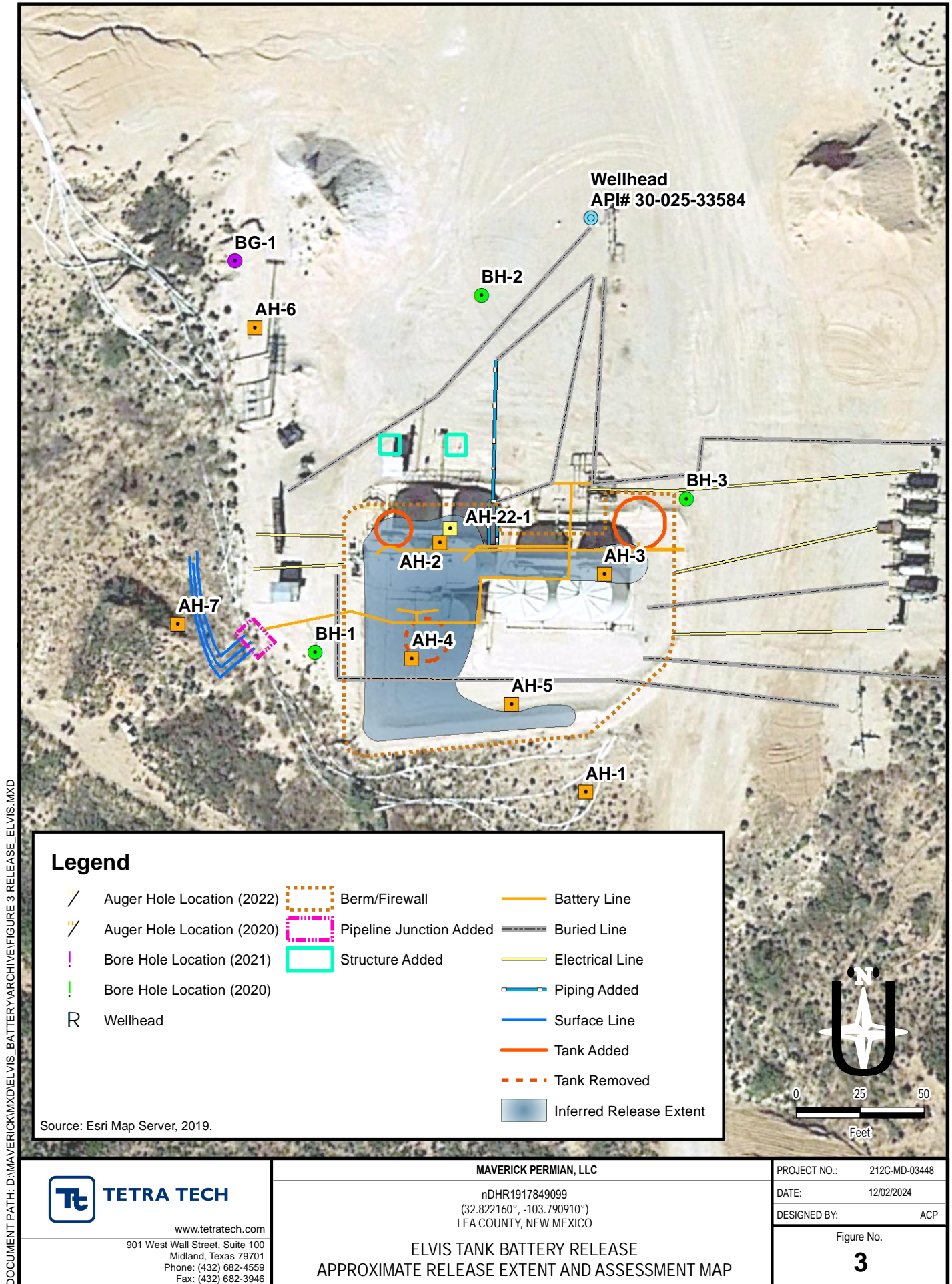
DATE: 12/02/2024

DESIGNED BY: ACP

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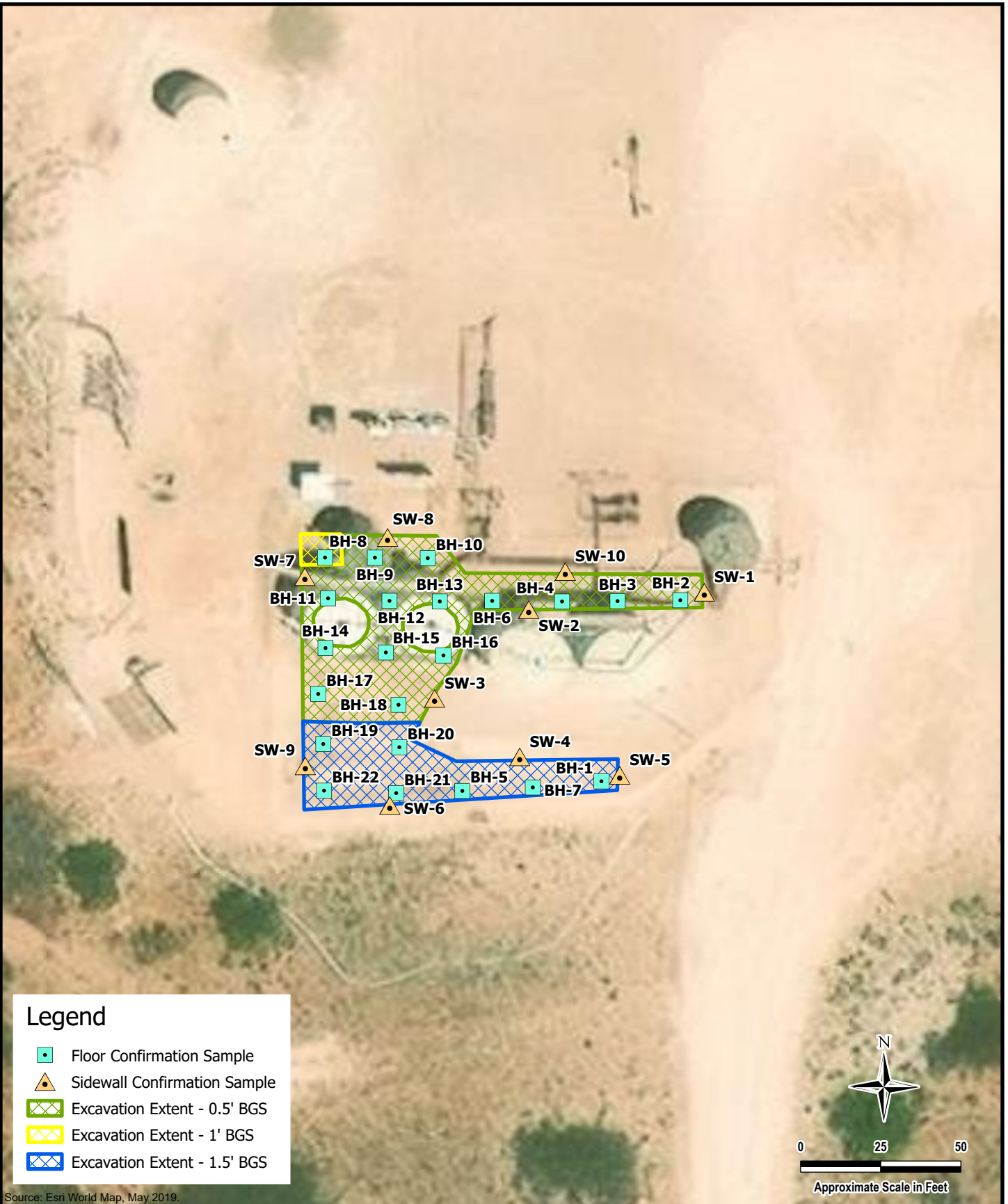
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**MAVERICK**  
NATURAL RESOURCES

**TETRA TECH**

## REMEDATION EXTENT AND CONFIRMATION SAMPLING

nDHR1917849099  
ELVIS TANK BATTERY  
(32.82216°, -103.79091°)  
LEA COUNTY, NEW MEXICO

Figure No.

**4**

PROJECT NO.: 212C-MD-03448

DATE: 4/28/2025

DESIGNED BY: ACP





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Source: Esri World Map, May 2019.

**MAVERICK**  
NATURAL RESOURCES

**TETRA TECH**

**DEFERRAL EXTENT**  
nDHR1917849099  
**ELVIS TANK BATTERY**  
(32.82216°, -103.79091°)  
LEA COUNTY, NEW MEXICO

Figure No.

**5**

PROJECT NO.: 212C-MD-03448

DATE: 12/2/2024

DESIGNED BY: ACP

Remediation Report and Closure Request  
Elvis Tank Battery Release  
Incident ID# nDHR1917849099

Maverick Permian, LLC  
April 29, 2025

## TABLES

**TETRA TECH**

**TABLE 1**  
**SOIL ASSESSMENT LOCATIONS**  
**INCIDENT ID nDHR1917849099**  
**MAVERICK PERMIAN, LLC**  
**ELVIS TANK BATTERY**  
**LEA COUNTY, NEW MEXICO**

Boring ID	Date	Latitude	Longitude
AH-1	2/18/2020	32.821911	-103.790781
AH-2	2/18/2020	32.822179	-103.790965
AH-3	2/18/2020	32.822144	-103.790756
AH-4	2/18/2020	32.822054	-103.791001
AH-5	2/18/2020	32.822005	103.790875
AH-6	2/25/2020	32.822410	103.791198
AH-7	2/25/2020	32.822093	103.791298
AH-22-1	3/11/2022	32.822194	-103.790952
BG-1	5/18/2021	32.822481	-103.791223
BH-1	2/25/2020	32.822062	-103.791124
BH-2	2/25/2020	32.822443	-103.790910
BH-3	2/25/2020	32.822224	-103.790651



**TABLE 2**  
**SUMMARY OF ANALYTICAL RESULTS**  
**ASSESSMENT SAMPLING - INCIDENT ID nDHR1917849099**  
**MAVERICK PERMIAN, LLC**  
**ELVIS TANK BATTERY**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		ORO		Total TPH (GRO+DRO+EXT DRO)	
		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C <sub>6</sub> - C <sub>10</sub>	Q	> C <sub>10</sub> - C <sub>28</sub>	Q	> C <sub>28</sub> - C <sub>36</sub>	Q	mg/kg		
Reclamation Requirements (19.15.29 NMAC)			600		10								50								100	
AH-1	2/18/2020	0 - 1	10.6		<0.00102		<0.00512		<0.00256		<0.00665		-		0.102		2.98	J	12.9		15.98	
	2/18/2020	2 - 3	26.8		<0.00103		<0.00515		<0.00257		<0.00669		-		0.103		9.9		33.2		43.20	
AH-2	2/18/2020	0 - 0.5	999		0.00083	J	0.0248		0.00983		0.0473		0.08276		9.12		4490		2000		6,499.12	
AH-3	2/18/2020	0 - 0.5	4,520		0.0239		0.0415	J	0.0167	J	0.696		0.7781		48.6		10400		4760		15,208.60	
AH-4	2/18/2020	0 - 0.5	458		0.000507	J	<0.00507		<0.00254		<0.0066		0.000507		0.101		71.4		69.7		141.20	
AH-5	2/18/2020	0 - 0.5	269		<0.00108		<0.00538		<0.00269		<0.00699		-		<0.108		6.38		4.13	J	10.51	
AH-6	2/25/2020	0 - 1	155		<0.00130		<0.0065		<0.00325		<0.00845		-		<0.130		2.65	J	4.42	J	7.07	
	2/25/2020	2 - 3	13.0	B	<0.00124		<0.0062		<0.0031		<0.00806		-		0.0802	B J	< 4.96		3.17	J	3.25	
	2/25/2020	4 - 5	81.8		<0.00124		<0.00619		<0.00309		<0.00804		-		0.0651	B J	2.26	J	1.97	J	4.30	
AH-7	2/25/2020	0 - 1	5.84	B J	<0.00118		<0.00588		<0.00294		<0.00765		-		0.0631	B J	2.31	J	3.73	J	6.10	
	2/25/2020	2 - 3	12.2	B J	<0.00124		<0.00622		<0.00311		<0.00809		-		0.468		< 4.98		0.789	J	1.26	
	2/25/2020	4 - 5	43.1		<0.00114		<0.00571		<0.00285		<0.00742		-		<0.114		< 4.57		0.717	J	0.72	
AH-22-1	3/11/2012	0 - 1	112		< 0.050		0.149		0.153		0.252		0.554		< 50.0		1,720		513		2,233	
	3/11/2012	2 - 3	80.0		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		10.5		< 10.0		10.5	
	3/11/2012	4 - 5	64.0		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		10.5		< 10.0		10.5	
	3/11/2012	5 - 6	192		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		< 10.0		< 10.0		-	
	3/11/2012	8 - 9	7,520		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		11.0		< 10.0		11.0	
	3/11/2012	9 - 10	12,000		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		< 10.0		< 10.0		-	
	3/11/2012	11 - 12	7,330		< 0.050		< 0.050		< 0.050		< 0.150		-		< 10.0		11.9		< 10.0		11.9	
BH-2	2/25/2020	0 - 1	235		<0.00114		<0.00569		<0.00285		<0.0074		-		<0.114		49		92.2		141.2	
	2/25/2020	2 - 3	93.6		<0.00102		<0.00510		<0.00255		<0.00663		-		<0.102		2.37	B J	4.67		7.04	
	2/25/2020	4 - 5	33.0		<0.00102		<0.00509		<0.00254		<0.00662		-		<0.102		< 4.07		3.05	J	3.05	
	2/25/2020	6 - 7	46.0		<0.00101		<0.00507		<0.00253		<0.00659		-		<0.101		< 4.05		2.94	J	2.94	
BH-3	11/10/2020	0 - 1	136		<0.00108		<0.00538		<0.00269		<0.00699		-		<0.108		< 4.30		5.28		5.28	
	11/10/2020	2 - 3	73.9		<0.00102		<0.00509		<0.00255		<0.00662		-		<0.102		4.74		20.4		25.14	
	11/10/2020	4 - 5	47.4		<0.00102		<0.00509		<0.00255		<0.00662		-		<0.102		< 4.07		2.65	J	2.65	
	11/10/2020	6 - 7	93.9		<0.00116		<0.00578		<0.00289		<0.00751		-		<0.116		< 4.62		1.58	J	1.58	

**NOTES:**

bgs: Below ground surface

mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

1: Method 300.0

2: Method 8021B

3: Method 8015M

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

B: The same analyte is found in the associated blank.

J: The identification of the analyte is acceptable, the reported value is an estimate.





**TABLE 3**  
**SUMMARY OF ANALYTICAL RESULTS**  
**SHALLOW SOIL CONFIRMATION SAMPLING - INCIDENT nDHR1917849099**  
**MAVERICK PERMIAN, LLC**  
**ELVIS TANK BATTERY**  
**LEA COUNTY, NEW MEXICO**

Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
		C <sub>6</sub> - C <sub>10</sub>	> C <sub>10</sub> - C <sub>28</sub>	> C <sub>28</sub> - C <sub>36</sub>	(GRO+DRO+EXT DRO)																	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			600		10						50										100	
SP 1 (BH-1 (0.5))	7/16/2024	0.5 - 1.0	704		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		16.1		<10.0		16.1	
BH - 1 (1.5')	7/17/2024	0.0 - 1.5	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SP 2 (BH-2 (0.5))	7/16/2024	0.5 - 1.0	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 2 (6")	7/17/2024	0.0 - 0.5	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 3 (6")	7/17/2024	0.0 - 0.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 5 (1.5')	7/16/2024	0.0 - 1.5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 4 (6")	7/17/2024	0.0 - 0.5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 6 (6")	7/17/2024	0.0 - 0.5	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 7 (1.5')	7/17/2024	0.0 - 1.5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 8 (6")	7/17/2024	0.0 - 0.5	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		291		95.1		386.1	
BH - 8 (1.0')	7/19/2024	0.0 - 1.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 9 (6")	7/17/2024	0.0 - 0.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 10 (6")	7/17/2024	0.0 - 0.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 11 (6")	7/17/2024	0.0 - 0.5	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 12 (6")	7/17/2024	0.0 - 0.5	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 13 (6")	7/16/2024	0.0 - 0.5	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 14 (6")	7/16/2024	0.0 - 0.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 15 (6")	7/16/2024	0.0 - 0.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 16 (6")	7/16/2024	0.0 - 0.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 17 (6")	7/16/2024	0.0 - 0.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 18 (6")	7/16/2024	0.0 - 0.5	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 19 (1.5')	7/16/2024	0.0 - 1.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 20 (1.5')	7/16/2024	0.0 - 1.5	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 21 (1.5')	7/16/2024	0.0 - 1.5	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH 22 (1.5')	7/16/2024	0.0 - 1.5	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 1	7/17/2024	0.0 - 1.5	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		11.7		<10.0		11.7	
SW - 2	7/17/2024	0.0 - 1.5	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		25.9		<10.0		25.9	
SW - 3	7/17/2024	0.0 - 1.5	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		25.3		<10.0		25.3	
SW - 4	7/17/2024	0.0 - 1.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		14.4		<10.0		14.4	
SW - 5	7/17/2024	0.0 - 1.5	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 6	7/17/2024	0.0 - 1.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 7	7/17/2024	0.0 - 1.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 8	7/17/2024	0.0 - 1.5	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 9	7/17/2024	0.0 - 1.5	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 10	7/17/2024	0.0 - 1.5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	





TABLE 3  
SUMMARY OF ANALYTICAL RESULTS  
SHALLOW SOIL CONFIRMATION SAMPLING - INCIDENT nDHR1917849099  
MAVERICK PERMIAN, LLC  
ELVIS TANK BATTERY  
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride <sup>1</sup>		BTEX <sup>2</sup>										TPH <sup>3</sup>							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
		C <sub>6</sub> - C <sub>10</sub>		> C <sub>10</sub> - C <sub>28</sub>											> C <sub>28</sub> - C <sub>36</sub>		(GRO+DRO+EXT DRO)					
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			600		10								50							100		

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 over excavated and resampled**

Remediation Report and Closure Request  
Elvis Tank Battery Release  
Incident ID# nDHR1917849099

Maverick Permian, LLC  
April 29, 2025

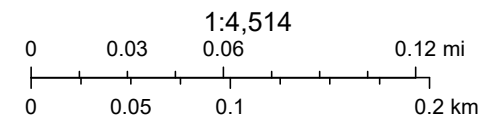
## **ATTACHMENT 1 – SITE CHARACTERIZATION DATA**

# Elvis Tank Battery OCD Well Locations



10/28/2024, 8:36:21 AM

- Override 1
- Oil, Active
- Oil, Cancelled
- Oil, Plugged
- Salt Water Injection, Active
- Karst Occurrence Potential
- Low
- Injection, Plugged
- PLSS Second Division
- PLSS First Division



BLM, OCD, New Mexico Tech, OCD, Esri, HERE, Garmin, IPC, Maxar, BLM

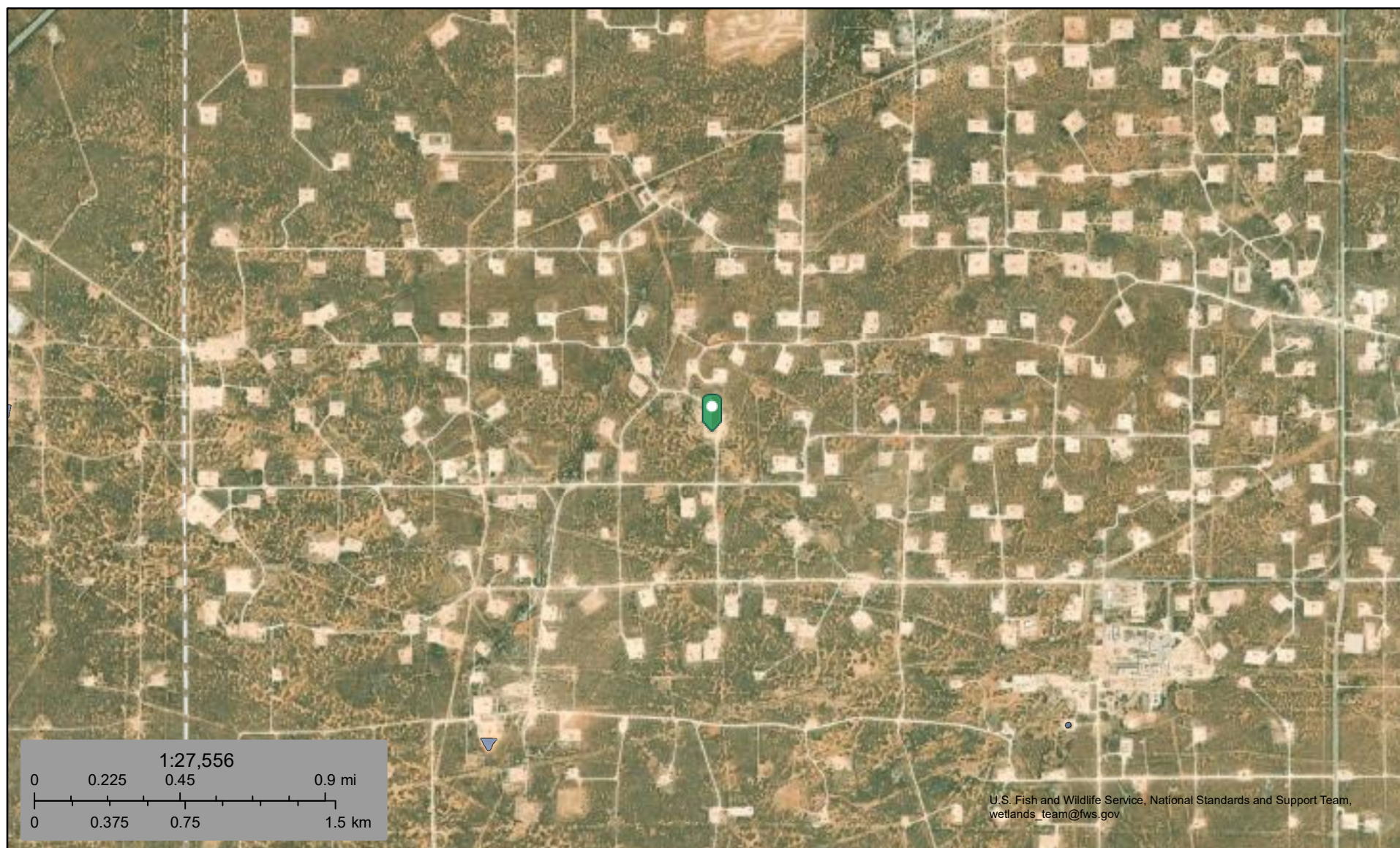
New Mexico Oil Conservation Division

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





## Elvis Tank Battery - nDHR1917849099



October 28, 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.



## New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

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No report data available.

### **UTM Filters (in meters):**

**Easting:** 613178.561

**Northing:** 3632218.613

**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.

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# National Flood Hazard Layer FIRMette



103°47'46"W 32°49'35"N



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

1:6,000

103°47'9"W 32°49'5"N

Released to Imaging: 5/28/2025 9:11:55 AM

Basemap Imagery Source: USGS National Map 2023

## Legend

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

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



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

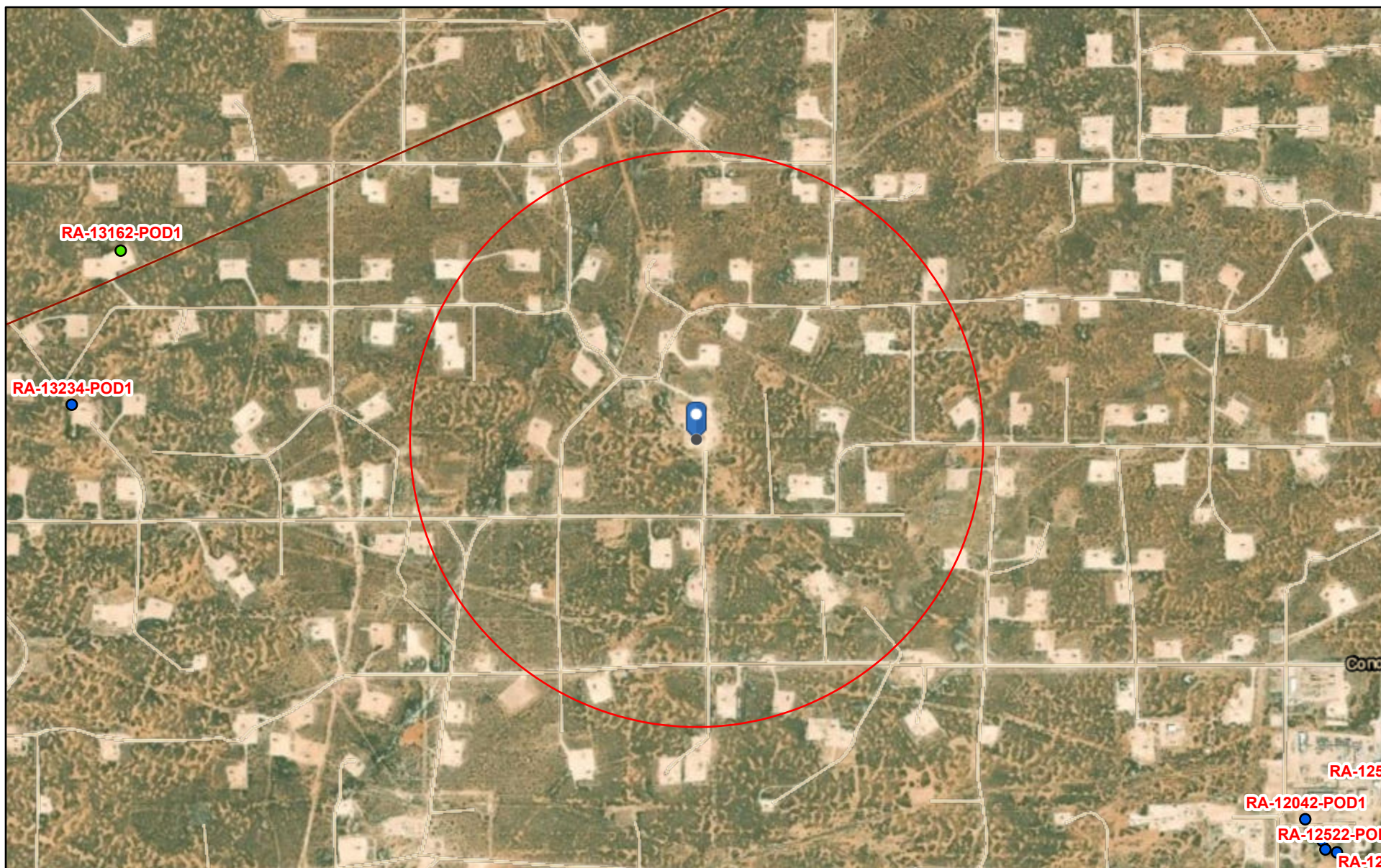
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/28/2024 at 1:34 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.



# Elvis Tank Battery Release OSE POD Location Map



10/28/2024, 8:35:20 AM

GIS WATERS PODs

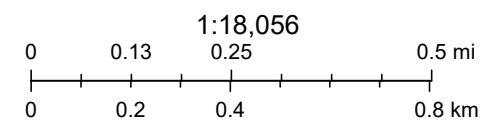
● Active



Pending

NHD Flowlines

— Pipeline



Esri, HERE, IPC, Esri, HERE, Garmin, IPC, Maxar

Online web user

This is an unofficial map from the OSE's online application.





United States  
Department of  
Agriculture

**NRCS**

Natural  
Resources  
Conservation  
Service

A product of the National  
Cooperative Soil Survey,  
a joint effort of the United  
States Department of  
Agriculture and other  
Federal agencies, State  
agencies including the  
Agricultural Experiment  
Stations, and local  
participants

# Custom Soil Resource Report for **Lea County, New Mexico**

## Elvis Tank Battery



October 28, 2024



Custom Soil Resource Report  
Soil Map (Elvis Tank Battery)

## Custom Soil Resource Report

## Map Unit Legend (Elvis Tank Battery)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit soils and Dune land, 0 to 12 percent slopes	38.9	100.0%
<b>Totals for Area of Interest</b>		<b>38.9</b>	<b>100.0%</b>

## Map Unit Descriptions (Elvis Tank Battery)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

## Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.



## Custom Soil Resource Report

## Lea County, New Mexico

## KM—Kermit soils and Dune land, 0 to 12 percent slopes

## Map Unit Setting

*National map unit symbol:* dmpx  
*Elevation:* 3,000 to 4,400 feet  
*Mean annual precipitation:* 10 to 15 inches  
*Mean annual air temperature:* 60 to 62 degrees F  
*Frost-free period:* 190 to 205 days  
*Farmland classification:* Not prime farmland

## Map Unit Composition

*Kermit and similar soils:* 46 percent  
*Dune land:* 44 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

## Description of Kermit

## Setting

*Landform:* Dunes  
*Landform position (two-dimensional):* Shoulder, backslope, footslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Concave, convex, linear  
*Across-slope shape:* Convex  
*Parent material:* Calcareous sandy eolian deposits derived from sedimentary rock

## Typical profile

*A - 0 to 8 inches:* fine sand  
*C - 8 to 60 inches:* fine sand

## Properties and qualities

*Slope:* 5 to 12 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Excessively drained  
*Runoff class:* Very low  
*Capacity of the most limiting layer to transmit water (Ksat):* Very high (20.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 3 percent  
*Gypsum, maximum content:* 1 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water supply, 0 to 60 inches:* Low (about 3.1 inches)

## Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* A  
*Ecological site:* R070BC022NM - Sandhills  
*Hydric soil rating:* No



## Custom Soil Resource Report

**Description of Dune Land****Setting**

*Landform:* Dunes

*Landform position (two-dimensional):* Shoulder, backslope, footslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Concave, convex, linear

*Across-slope shape:* Convex

*Parent material:* Sandy eolian deposits derived from sedimentary rock

**Typical profile**

*A - 0 to 6 inches:* fine sand

*C - 6 to 60 inches:* fine sand

**Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 8

*Hydrologic Soil Group:* A

*Hydric soil rating:* No

**Minor Components****Palomas**

*Percent of map unit:* 3 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Pyote**

*Percent of map unit:* 3 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Wink**

*Percent of map unit:* 2 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Maljamar**

*Percent of map unit:* 2 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

Remediation Report and Closure Request  
Elvis Tank Battery Release  
Incident ID# nDHR1917849099

Maverick Permian, LLC  
April 29, 2025

## **ATTACHMENT 2 – BORE LOGS**

212C-MD-02482		<b>TETRA TECH</b>										<b>LOG OF BORING BG-1</b>															Page 1 of 2										
Project Name: Elvis (East) Assessment																																					
Borehole Location: GPS: 32.822481°, -103.791223°															Surface Elevation: 3991 ft																						
Borehole Number: BG-1										Borehole Diameter (in.): 8					Date Started: 5/18/2021					Date Finished: 5/18/2021																	
<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>  </u> <u>  </u> <u>  </u> ft Upon Completion of Drilling <u>  </u> <u>  </u> <u>  </u> ft Remarks:																																					
DEPTH (ft)		OPERATION TYPE		SAMPLE		CHLORIDE FIELD SCREENING (ppm)		VOC FIELD SCREENING (ppm)		SAMPLE RECOVERY (%)		MOISTURE CONTENT (%)		DRY DENSITY (pcf)		LIQUID LIMIT		PLASTICITY INDEX		MINUS NO. 200 (%)		GRAPHIC LOG		<b>MATERIAL DESCRIPTION</b>										DEPTH (ft)		REMARKS	
						ExStik		PID								LL		PI						<p><b>-SM-</b> SILTY SAND: Light reddish-brown, fine to medium grained, weakly cemented, trace calcareous gravel, dry, with no odor, with no staining, with caliche fragments.</p>													
5																								<p><b>-CL-</b> SANDY LEAN CLAY: Reddish-brown, dry, weakly to moderately cemented, with no odor, with no staining.</p>										13			
10																								<p><b>-SC-</b> CLAYEY SAND: Reddish-brown, dry, fine to medium grained, weakly cemented, with no odor, with no staining.</p>										18			
15																								<p><b>-SP-</b> POORLY GRADED SAND: Reddish-brown, trace gravel, fine to medium grained, dry, moderately cemented, with no odor, with no staining.</p>										27			
20																																					
25																																					
30																																					

Sampler Types:		<input checked="" type="checkbox"/> Split Spoon <input type="checkbox"/> Acetate Liner <input type="checkbox"/> Shelby <input type="checkbox"/> Vane Shear <input type="checkbox"/> Bulk Sample <input type="checkbox"/> California <input type="checkbox"/> Grab Sample <input type="checkbox"/> Test Pit				Operation Types:		<input type="checkbox"/> Hand Auger <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Air Rotary <input type="checkbox"/> Continuous Flight Auger <input type="checkbox"/> Direct Push <input type="checkbox"/> Wash Rotary <input type="checkbox"/> Core Barrel				Notes: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.									
Logger: Devin Dominguez    Drilling Equipment: Air Rotary    Driller: Scarborough Drilling																					



212C-MD-02482		<b>TETRA TECH</b>		<b>LOG OF BORING BG-1</b>				Page 2 of 2										
Project Name: Elvis (East) Assessment																		
Borehole Location: GPS: 32.822481°, -103.791223°					Surface Elevation: 3991 ft													
Borehole Number: BG-1				Borehole Diameter (in.): 8		Date Started: 5/18/2021		Date Finished: 5/18/2021										
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>▽</u> <u>Dry</u> ft    Upon Completion of Drilling <u>▽</u> <u>Dry</u> ft Remarks:						
			ExStik	PID								MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS				
35																		
40																		
45																		
50																		
55																		
Bottom of borehole at 55.0 feet.																		
<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   California   Test Pit         </div> </div>		<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 50%;">  Hand Auger   Air Rotary   Direct Push   Core Barrel         </div> </div>		<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.														
Logger: Devin Dominguez					Drilling Equipment: Air Rotary					Driller: Scarborough Drilling								

212C-MD-02060		<b>TETRA TECH</b>		LOG OF BORING AH-1				Page 1 of 1						
Project Name: Elvis Tank Battery Release														
Borehole Location: GPS: 32.821911°, -103.790781°					Surface Elevation: 3983 ft									
Borehole Number: AH-1				Borehole Diameter (in.): 8		Date Started: 2/18/2020		Date Finished: 2/18/2020						
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft  Remarks:		
			ExStik	PID					LL			PI	MATERIAL DESCRIPTION	DEPTH (ft)
109	0											-SM- SILTY SAND; Brown, with no cementation, with no odor, with no staining.	1	AH-1 (0'-1')
130	0											-- Refusal met @ 3 ft. due to gravel pack and caprock.	3	AH-1 (2'-3')
Bottom of borehole at 3.0 feet.														
<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   California   Test Pit         </div> </div>		<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 50%;">  Hand Auger   Air Rotary   Direct Push   Core Barrel         </div> </div>		<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.										
Logger: Joe Tyler					Drilling Equipment: Hand Auger					Driller: Tetra Tech				

212C-MD-02060		<b>TETRA TECH</b>										<b>LOG OF BORING AH-2</b>															Page 1 of 1	
Project Name: Elvis Tank Battery Release																												
Borehole Location: GPS: 32.822179°, -103.790965°															Surface Elevation: 3987 ft													
Borehole Number: AH-2										Borehole Diameter (in.): 8					Date Started: 2/18/2020					Date Finished: 2/18/2020								
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft  Remarks:																
												<b>MATERIAL DESCRIPTION</b>													DEPTH (ft)	REMARKS		
			ExStik	PID									<b>-SM-</b> SILTY SAND; Tan, with heavy gravel, with low odor, with low staining. <b>--</b> Refusal met @ 0.5 ft. due to presence of polyethylene liner.  Bottom of borehole at 0.5 feet.													0.5	AH-2 (0'-0.5')	
<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   California   Test Pit         </div> </div>		<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 50%;">  Hand Auger   Air Rotary   Direct Push   Core Barrel         </div> </div>		<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.																								
Logger: Joe Tyler										Drilling Equipment: Hand Auger										Driller: Tetra Tech								




212C-MD-02060		<b>TETRA TECH</b>										<b>LOG OF BORING AH-3</b>															Page 1 of 1	
Project Name: Elvis Tank Battery Release																												
Borehole Location: GPS: 32.822144°, -103.790756°															Surface Elevation: 3987 ft													
Borehole Number: AH-3										Borehole Diameter (in.): 8					Date Started: 2/18/2020					Date Finished: 2/18/2020								
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft  Remarks:																
												<b>MATERIAL DESCRIPTION</b>													DEPTH (ft)	REMARKS		
			ExStik	PID									0.5	<b>-SM-</b> SILTY SAND; Tan, with heavy gravel, with low odor, with low staining. <b>--</b> Refusal met @ 0.5 ft. due to presence of polyethylene liner.  Bottom of borehole at 0.5 feet.														
<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   California   Test Pit         </div> </div>		<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 50%;">  Hand Auger   Air Rotary   Direct Push   Core Barrel         </div> </div>		<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.																								
Logger: Joe Tyler										Drilling Equipment: Hand Auger										Driller: Tetra Tech								

212C-MD-02060		<b>TETRA TECH</b>										<b>LOG OF BORING AH-4</b>															Page 1 of 1	
Project Name: Elvis Tank Battery Release																												
Borehole Location: GPS: 32.822054°, -103.791001°															Surface Elevation: 3985 ft													
Borehole Number: AH-4										Borehole Diameter (in.): 8					Date Started: 2/18/2020					Date Finished: 2/18/2020								
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft  Remarks:																
												<b>MATERIAL DESCRIPTION</b>													DEPTH (ft)	REMARKS		
			ExStik	PID	0								<b>-SM-</b> SILTY SAND; Tan, with heavy gravel, with low odor, with low staining. <b>--</b> Refusal met @ 0.5 ft. due to presence of polyethylene liner.  Bottom of borehole at 0.5 feet.													0.5	AH-4 (0'-0.5')	
<b>Sampler Types:</b> Split Spoon     Acetate Liner Shelby     Vane Shear Bulk Sample     California Grab Sample     Test Pit					<b>Operation Types:</b> Hand Auger Mud Rotary     Air Rotary Continuous Flight Auger     Direct Push Wash Rotary     Core Barrel					<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.																		
Logger: Joe Tyler										Drilling Equipment: Hand Auger										Driller: Tetra Tech								

212C-MD-02060		<b>TETRA TECH</b>										<b>LOG OF BORING AH-5</b>															Page 1 of 1	
Project Name: Elvis Tank Battery Release																												
Borehole Location: GPS: 32.822005°, -103.790875°															Surface Elevation: 3984 ft													
Borehole Number: AH-5										Borehole Diameter (in.): 8					Date Started: 2/18/2020					Date Finished: 2/18/2020								
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft  Remarks:																
												<b>MATERIAL DESCRIPTION</b>										DEPTH (ft)	REMARKS					
			ExStik	PID									<b>-SM-</b> SILTY SAND; Tan, with heavy gravel, with low odor, with low staining. <b>--</b> Refusal met @ 0.5 ft. due to presence of polyethylene liner.  Bottom of borehole at 0.5 feet.										0.5	AH-5 (0'-0.5')				
<b>Sampler Types:</b> Split Spoon     Acetate Liner Shelby     Vane Shear Bulk Sample     California Grab Sample     Test Pit					<b>Operation Types:</b> Hand Auger Mud Rotary     Air Rotary Continuous Flight Auger     Direct Push Wash Rotary     Core Barrel					<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.																		
Logger: Joe Tyler										Drilling Equipment: Hand Auger										Driller: Tetra Tech								



212C-MD-02060	 TETRA TECH	<b>LOG OF BORING AH-6</b>	Page 1 of 1
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Project Name: Elvis Tank Battery Release

Borehole Location: GPS: 32.822410°, -103.791198°


Surface Elevation: 3986 ft
















Borehole Number: AH-6

Borehole  
Diameter (in.): 2

Date Started: 2/25/2020

Date Finished: 2/25/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS	
												While Drilling	Upon Completion of Drilling			
												<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft Remarks:				
			ExStik	PID				LL	PI				<b>MATERIAL DESCRIPTION</b>			
5			481	0.2									-SM- SILTY SAND; Tan, with heavy gravel, with low odor, with low staining.	1.5	AH-6 (0'-1')	
			509	0									-SM- SILTY SAND; Brown, with no cementation, with no odor, with no staining.		AH-6 (2'-3')	
			423	0.1											AH-6 (4'-5')	
Bottom of borehole at 5.0 feet.																

<b>Sampler Types:</b>  Split Spoon  Shelby  Bulk Sample  Grab Sample  Acetate Liner  Vane Shear  California  Test Pit	<b>Operation Types:</b>  Hand Auger  Mud Rotary  Continuous Flight Auger  Wash Rotary  Air Rotary  Direct Push  Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
<b>Logger:</b> Joe Tyler	<b>Drilling Equipment:</b> Hand Auger	<b>Driller:</b> Tetra Tech

212C-MD-02060		<b>TETRA TECH</b>		<b>LOG OF BORING AH-7</b>				Page 1 of 1							
Project Name: Elvis Tank Battery Release															
Borehole Location: GPS: 32.822093°, -103.791298°						Surface Elevation: 3981 ft									
Borehole Number: AH-7				Borehole Diameter (in.): 2		Date Started: 2/25/2020		Date Finished: 2/25/2020							
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	<b>WATER LEVEL OBSERVATIONS</b> While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft  Remarks:			
			ExStik	PID				LL	PI			MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS	
5	[Hand Auger]	[Hand]	97	0.1							[Pattern]		-SM- SILTY SAND; Brown, with no cementation, with no odor, with no staining.	5	AH-7 (0'-1')
			101	0.1											AH-7 (2'-3')
			277	0											AH-7 (4'-5')

Bottom of borehole at 5.0 feet.

<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   California   Test Pit         </div> </div>	<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 50%;">  Hand Auger   Air Rotary   Direct Push   Core Barrel         </div> </div>	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
<b>Logger:</b> Joe Tyler	<b>Drilling Equipment:</b> Hand Auger	<b>Driller:</b> Tetra Tech

212C-MD-02060		<b>TETRA TECH</b>		<b>LOG OF BORING BH-1</b>				Page 1 of 1	
Project Name: Elvis Tank Battery Release									
Borehole Location: GPS: 32.822062°, -103.791124°						Surface Elevation: 3983 ft			
Borehole Number: BH-1				Borehole Diameter (in.): 2		Date Started: 2/10/2020		Date Finished: 2/10/2020	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
			ExStik	PID				LL	PI			-SM- SILTY SAND; Brown, mixed with pad calicle, heavily cemented, with low odor, with no staining, wet.		1.5	
			701	1								-SM- SILTY SAND; Brown, with no cementation, with no odor, with no staining, wet.			
5			509	1											
			131	1											
10			498	1											
			512	1											
15			561	1										15	

Bottom of borehole at 15.0 feet.

<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   California   Test Pit         </div> </div>	<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 50%;">  Hand Auger   Air Rotary   Direct Push   Core Barrel         </div> </div>	<b>Notes:</b> Analytical samples were not collected.
<b>Logger:</b> Joe Tyler		<b>Drilling Equipment:</b> Air Rotary
		<b>Driller:</b> Scarborough Drilling



212C-MD-02060		<b>TETRA TECH</b>		<b>LOG OF BORING BH-2</b>				Page 1 of 1												
Project Name: Elvis Tank Battery Release																				
Borehole Location: GPS: 32.822443°, -103.790910°					Surface Elevation: 3984 ft															
Borehole Number: BH-2				Borehole Diameter (in.): 2		Date Started: 2/10/2020		Date Finished: 2/10/2020												
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS								
												While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft								
Remarks:												DEPTH (ft)	REMARKS							
MATERIAL DESCRIPTION																				
5	[Wavy Line]	[X]	401	1							[Dotted Pattern]	[Dotted Pattern]	1.5	BH-2 (0'-1')						
			523	1											[Dotted Pattern]	[Dotted Pattern]	BH-2 (2'-3')			
			194	1														[Dotted Pattern]	[Dotted Pattern]	BH-2 (4'-5')
			157	1																

Bottom of borehole at 7.0 feet.

<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   California   Test Pit </div> </div>	<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary </div> <div style="width: 50%;">  Hand Auger   Air Rotary   Direct Push   Core Barrel </div> </div>	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling

212C-MD-02060		<b>TETRA TECH</b>		<b>LOG OF BORING BH-3</b>				Page 1 of 1	
Project Name: Elvis Tank Battery Release									
Borehole Location: GPS: 32.822224°, -103.790651°					Surface Elevation: 3985 ft				
Borehole Number: BH-3				Borehole Diameter (in.): 2		Date Started: 2/10/2020		Date Finished: 2/10/2020	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	
												While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft Remarks:		
												DEPTH (ft)	REMARKS	
5	[Symbol]	X	312	1							[Symbol]	[Symbol]	1.5	BH-3 (0'-1')
			285	1										BH-3 (2'-3')
			198	1										BH-3 (4'-5')
			290	1										BH-3 (6'-7')
10	[Symbol]	X	304	1							8		-SM- SILTY SAND; Brown, with few pebble gravel, with moderate cementation, with no odor, with no staining, wet.	
15	[Symbol]	X									15			

Bottom of borehole at 15.0 feet.

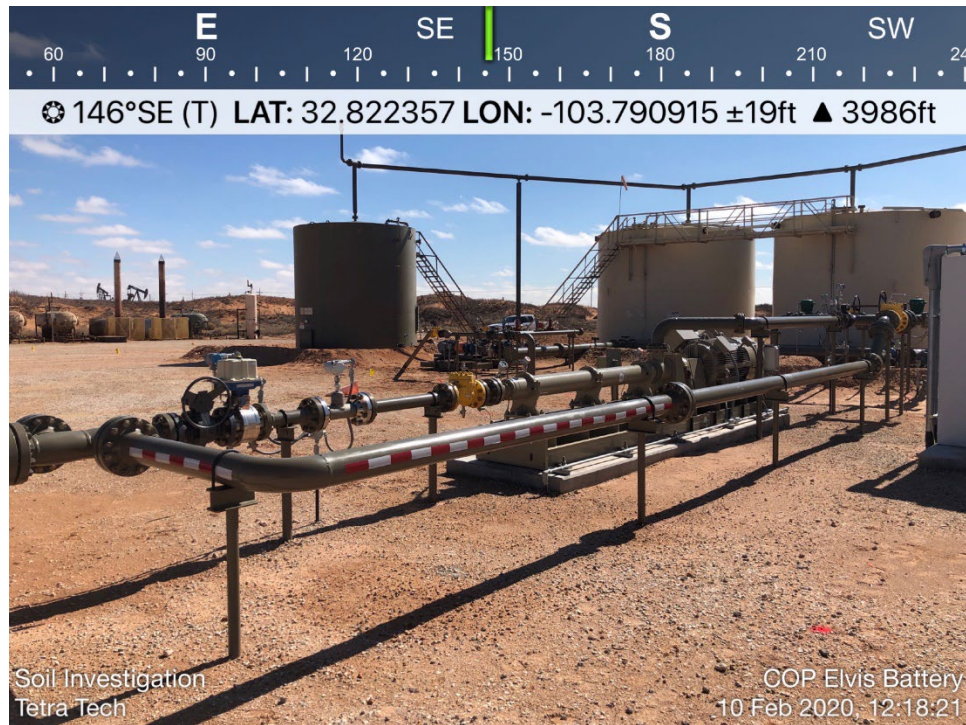
<b>Sampler Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon   Shelby   Bulk Sample   Grab Sample         </div> <div style="width: 50%;">  Acetate Liner   Vane Shear   California   Test Pit         </div> </div>	<b>Operation Types:</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary   Continuous Flight Auger   Wash Rotary         </div> <div style="width: 50%;">  Hand Auger   Air Rotary   Direct Push   Core Barrel         </div> </div>	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
<b>Logger:</b> Joe Tyler		<b>Drilling Equipment:</b> Air Rotary
		<b>Driller:</b> Scarborough Drilling

Remediation Report and Closure Request  
Elvis Tank Battery Release  
Incident ID# nDHR1917849099

Maverick Permian, LLC  
April 29, 2025

## **ATTACHMENT 3 – PHOTOGRAPHIC DOCUMENTATION**





TETRA TECH, INC. PROJECT NO. 212C-MD-02060	DESCRIPTION	View southeast. Elvis Tank Battery north of containment berm.	1
	SITE NAME	Elvis Tank Battery Release	2/10/2020

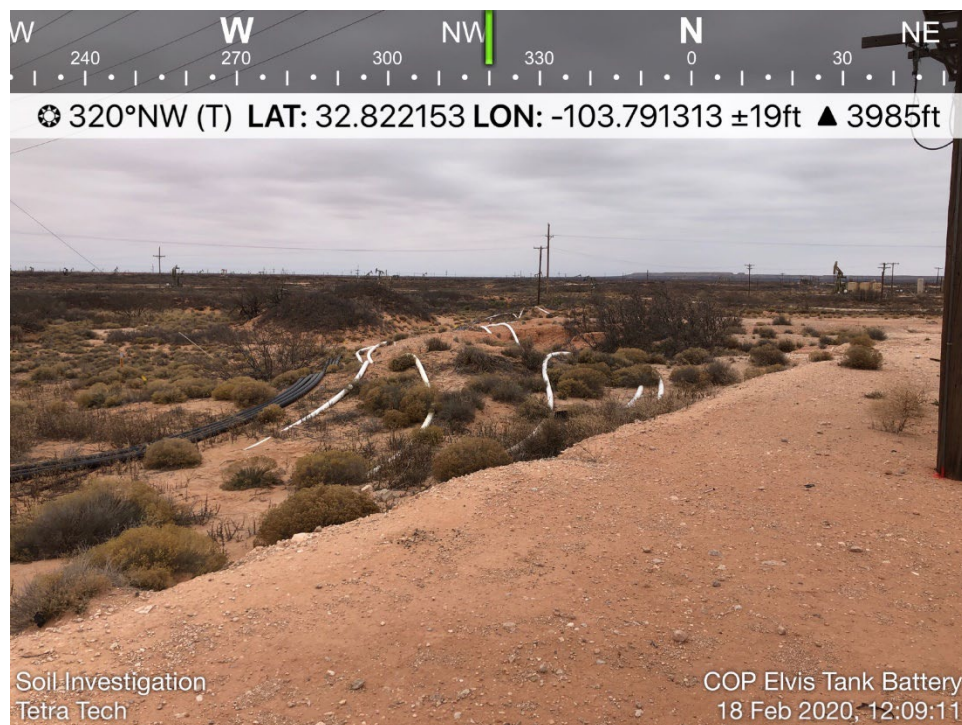


TETRA TECH, INC. PROJECT NO. 212C-MD-02060	DESCRIPTION	View south. Central portion of the release area south of the northern tank battery.	2
	SITE NAME	Elvis Tank Battery Release	2/10/2020



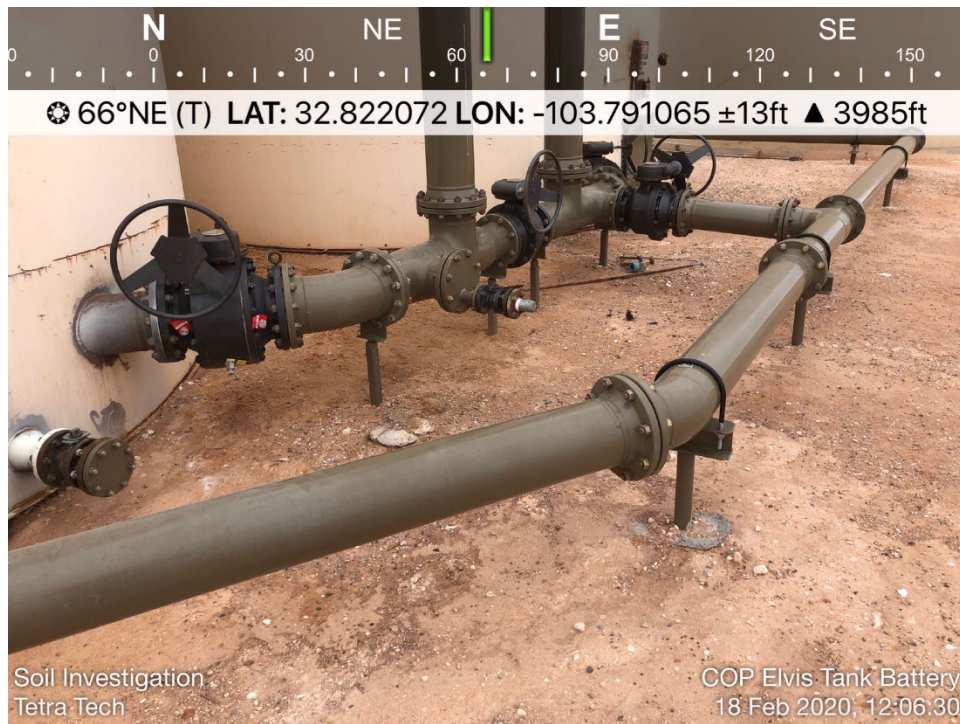


TETRA TECH, INC. PROJECT NO. 212C-MD-02060	DESCRIPTION	View east. Production equipment north of the tank battery.	3
	SITE NAME	Elvis Tank Battery Release	2/18/2020

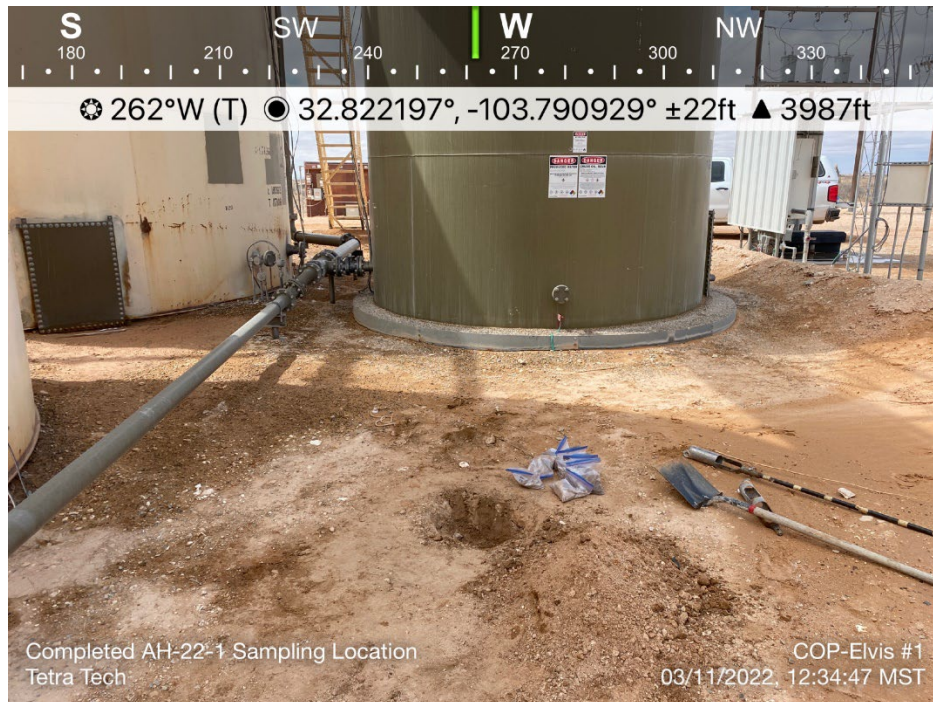


TETRA TECH, INC. PROJECT NO. 212C-MD-02060	DESCRIPTION	View northwest. Flowlines west of lease pad.	4
	SITE NAME	Elvis Tank Battery Release	2/18/2020





TETRA TECH, INC. PROJECT NO. 212C-MD-02060	DESCRIPTION	View northeast. Soil staining near tanks and lines inside berm.	5
	SITE NAME	Elvis Tank Battery Release	2/18/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02060	DESCRIPTION	View northeast. Soil staining near tanks and lines inside berm.	5
	SITE NAME	Elvis Tank Battery Release	3/22/2022





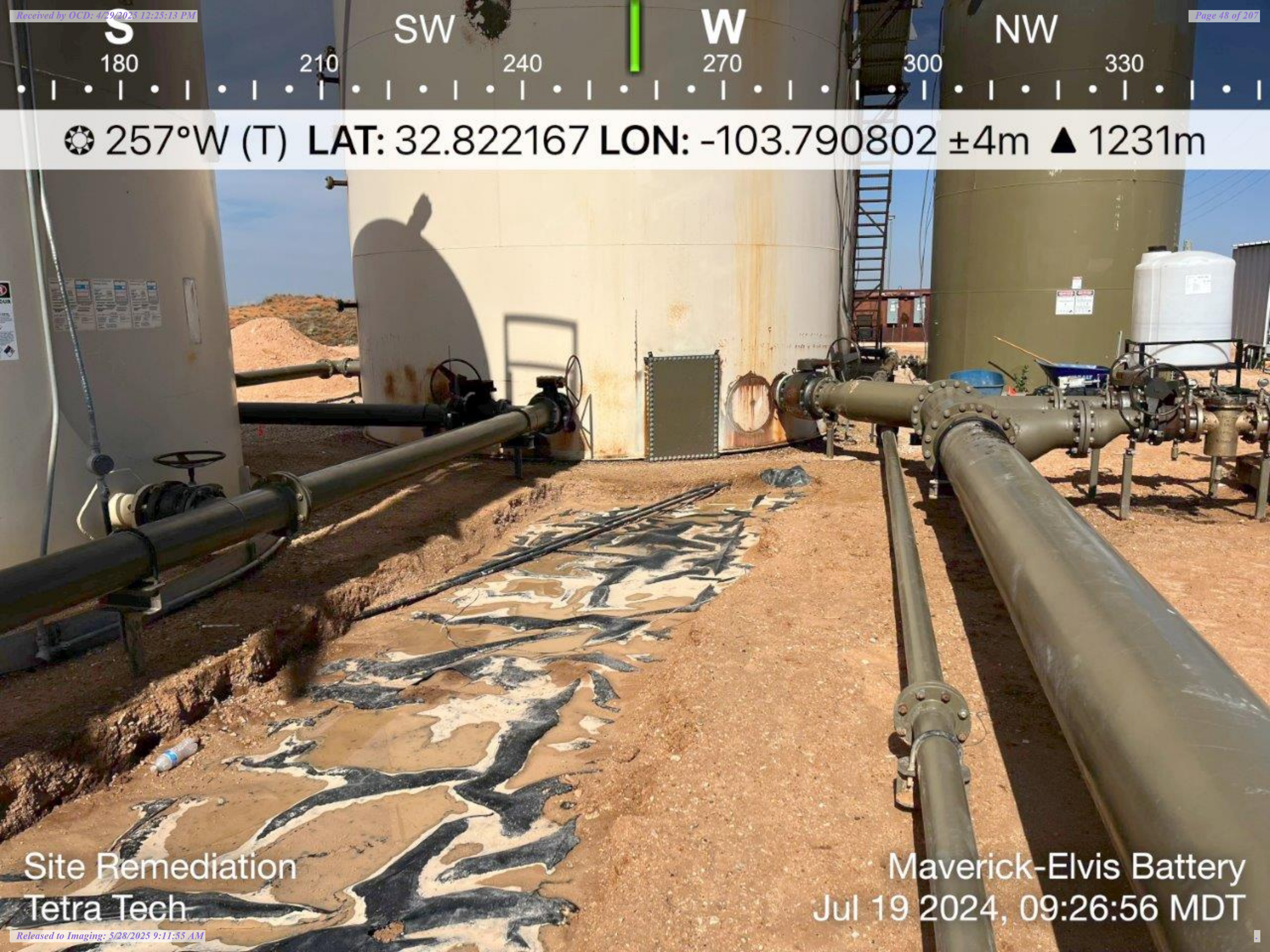
☉ 72°E (T) LAT: 32.8222189 LON: -103.790884 ±4m ▲ 1231m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 19 2024, 09:26:41 MDT





☉ 257°W (T) LAT: 32.822167 LON: -103.790802 ±4m ▲ 1231m

Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 19 2024, 09:26:56 MDT



S

SW

W

NW

150

180

210

240

270

300

330

☉ 237°SW (T) LAT: 32.822196 LON: -103.790927 ±4m ▲ 1222m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 17 2024, 12:01:07 MDT



S

SW

W

NW

180

210

240

270

300

330

☉ 250°W (T) LAT: 32.822186 LON: -103.790969 ±4m ▲ 1217m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 17 2024, 12:01:17 MDT



NE

E

SE

S

30

60

90

120

150

180

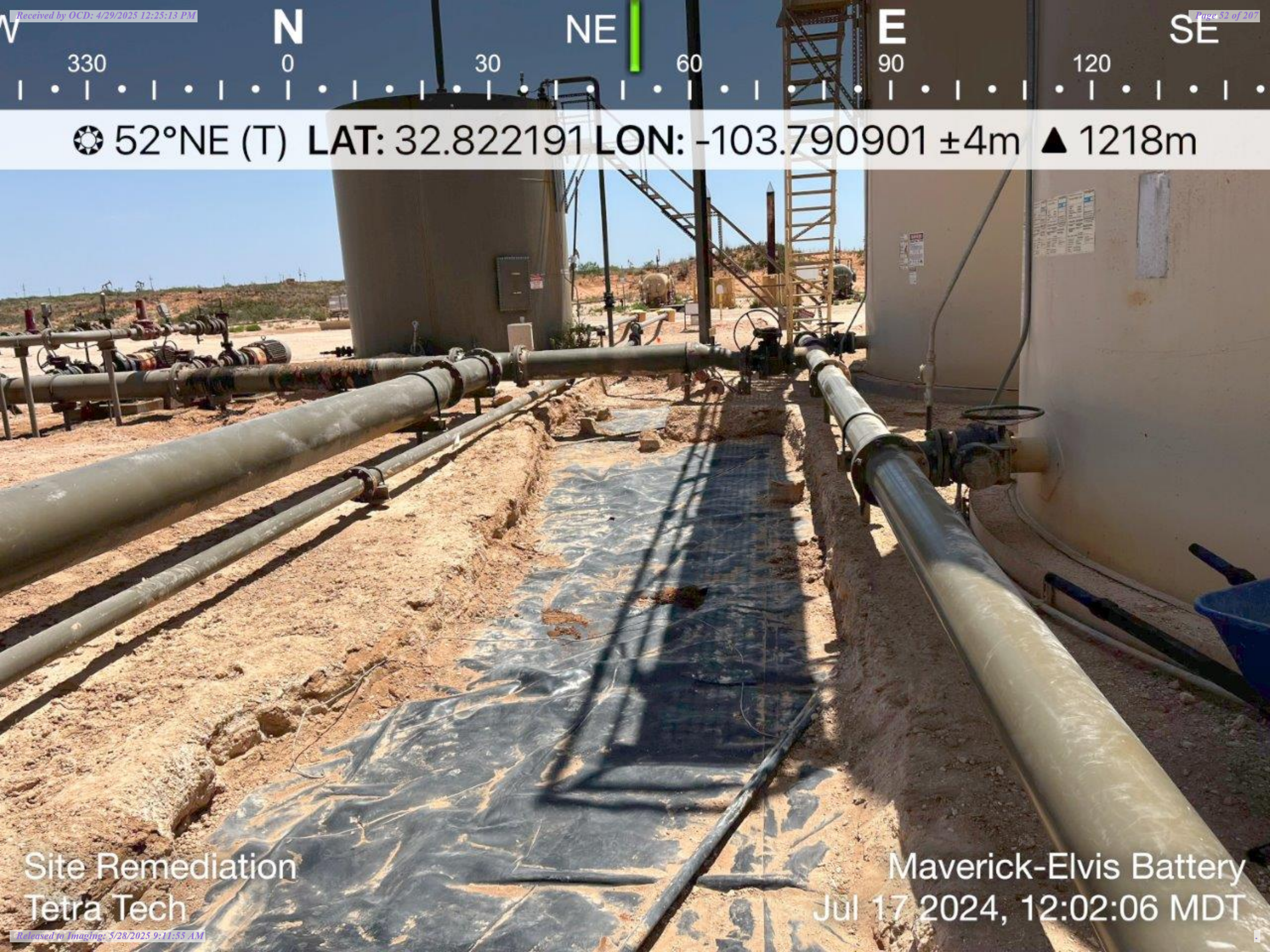
☉ 100°E (T) LAT: 32.822209 LON: -103.790920 ±4m ▲ 1219m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 17 2024, 12:01:38 MDT





☀ 52°NE (T) LAT: 32.822191 LON: -103.790901 ±4m ▲ 1218m

Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 17 2024, 12:02:06 MDT





N

NE

E

SE

330

0

30

60

90

120

150

☀ 61°NE (T) LAT: 32.822193 LON: -103.790825 ±4m ▲ 1218m

Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 17 2024, 12:02:24 MDT



S

SW

W

NW

180

210

240

270

300

330

☀ 252°W (T) LAT: 32.822190 LON: -103.790816 ±4m ▲ 1218m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 17 2024, 12:02:33 MDT





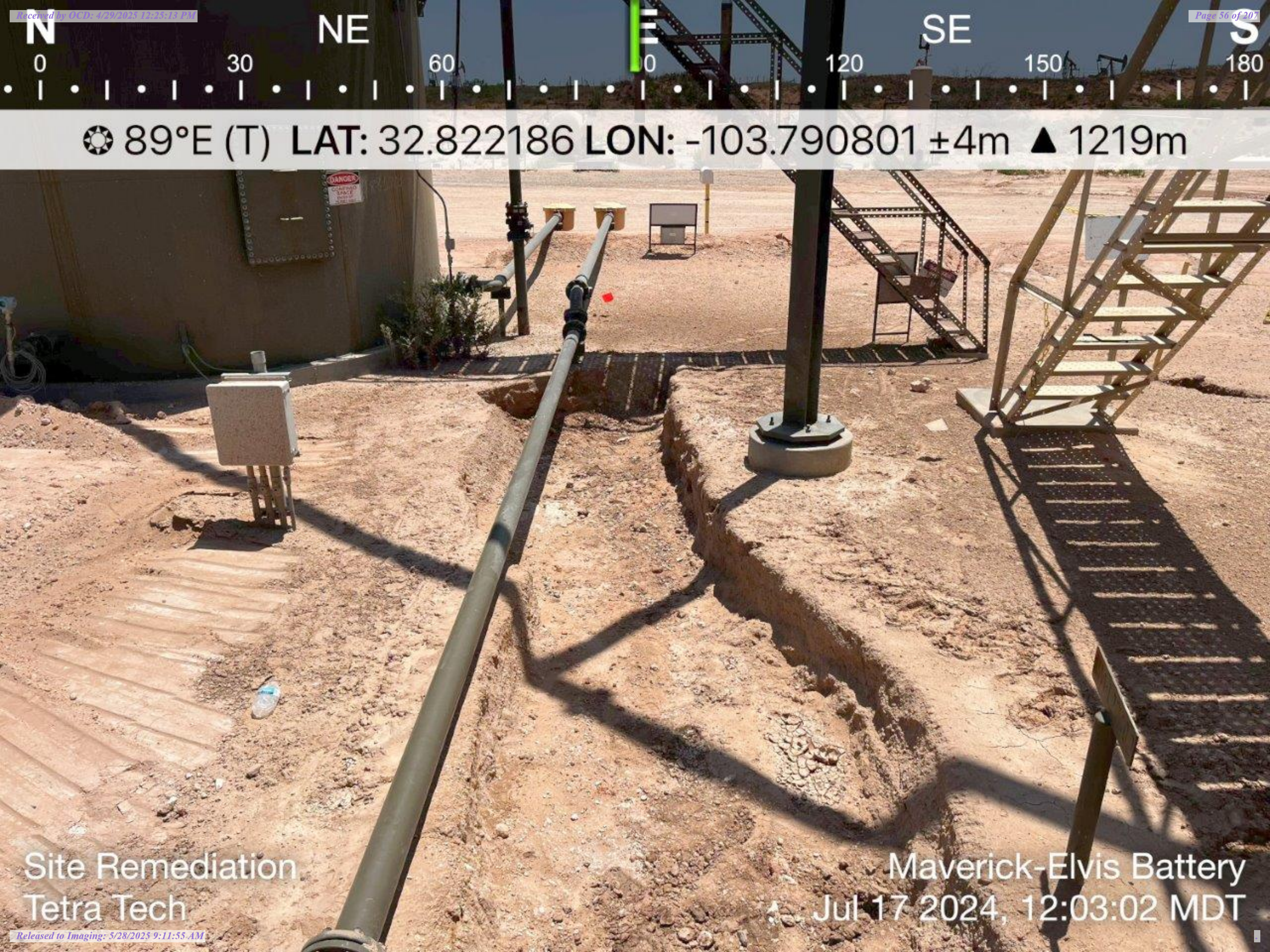
☀ 99°E (T) LAT: 32.822194 LON: -103.790817 ±4m ▲ 1218m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 17 2024, 12:02:51 MDT





☀ 89°E (T) LAT: 32.822186 LON: -103.790801 ±4m ▲ 1219m

Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 17 2024, 12:03:02 MDT





269°W (T) LAT: 32.822184 LON: -103.790807 ±4m ▲ 1219m

Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 17 2024, 12:03:08 MDT





☉ 249°W (T) LAT: 32.822099 LON: -103.790851 ±4m ▲ 1219m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 17 2024, 12:03:50 MDT





W NW N NE  
270 300 330 0 30 60  
☉ 344°N (T) LAT: 32.821997 LON: -103.790951 ±4m ▲ 1219m

Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 17 2024, 12:04:12 MDT





☉ 235°SW (T) LAT: 32.822113 LON: -103.790911 ±3m ▲ 1219m



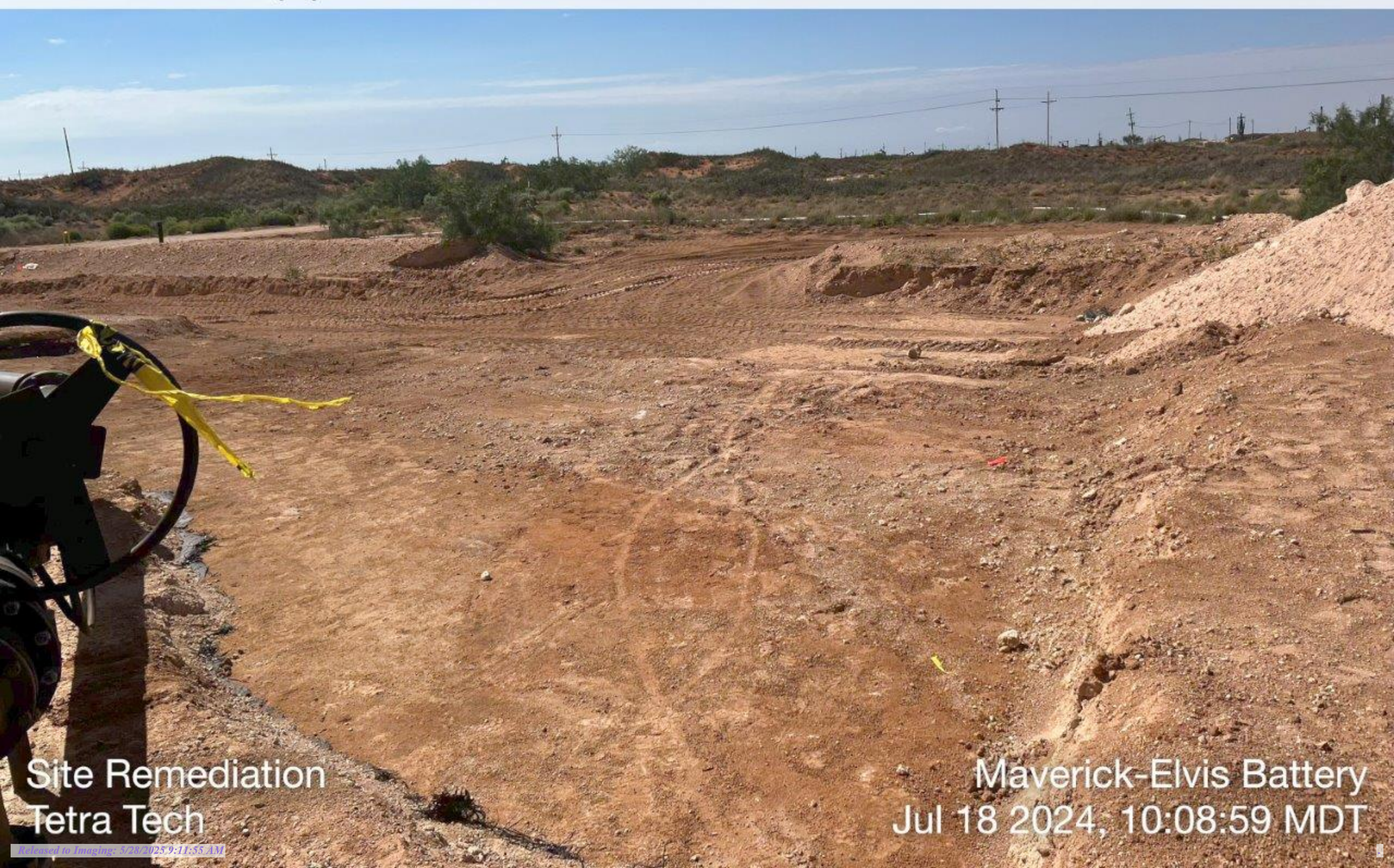
Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 17 2024, 12:04:37 MDT





☉ 123°SE (T) LAT: 32.822130 LON: -103.791074 ±4m ▲ 1219m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 18 2024, 10:08:59 MDT



NE

E

SE

S

30

60

90

120

150

180

☉ 101°E (T) LAT: 32.822087 LON: -103.791071 ±4m ▲ 1215m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 18 2024, 10:09:09 MDT





☉ 124°SE (T) **LAT:** 32.822070 **LON:** -103.790922 ±4m ▲ 1216m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 18 2024, 10:09:29 MDT





☀ 263°W (T) LAT: 32.822070 LON: -103.790797 ±4m ▲ 1216m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 18 2024, 10:09:45 MDT





☀ 318°NW (T) LAT: 32.822048 LON: -103.790821 ±4m ▲ 1216m

Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 18 2024, 10:10:01 MDT



S

SW

W

NW

180

210

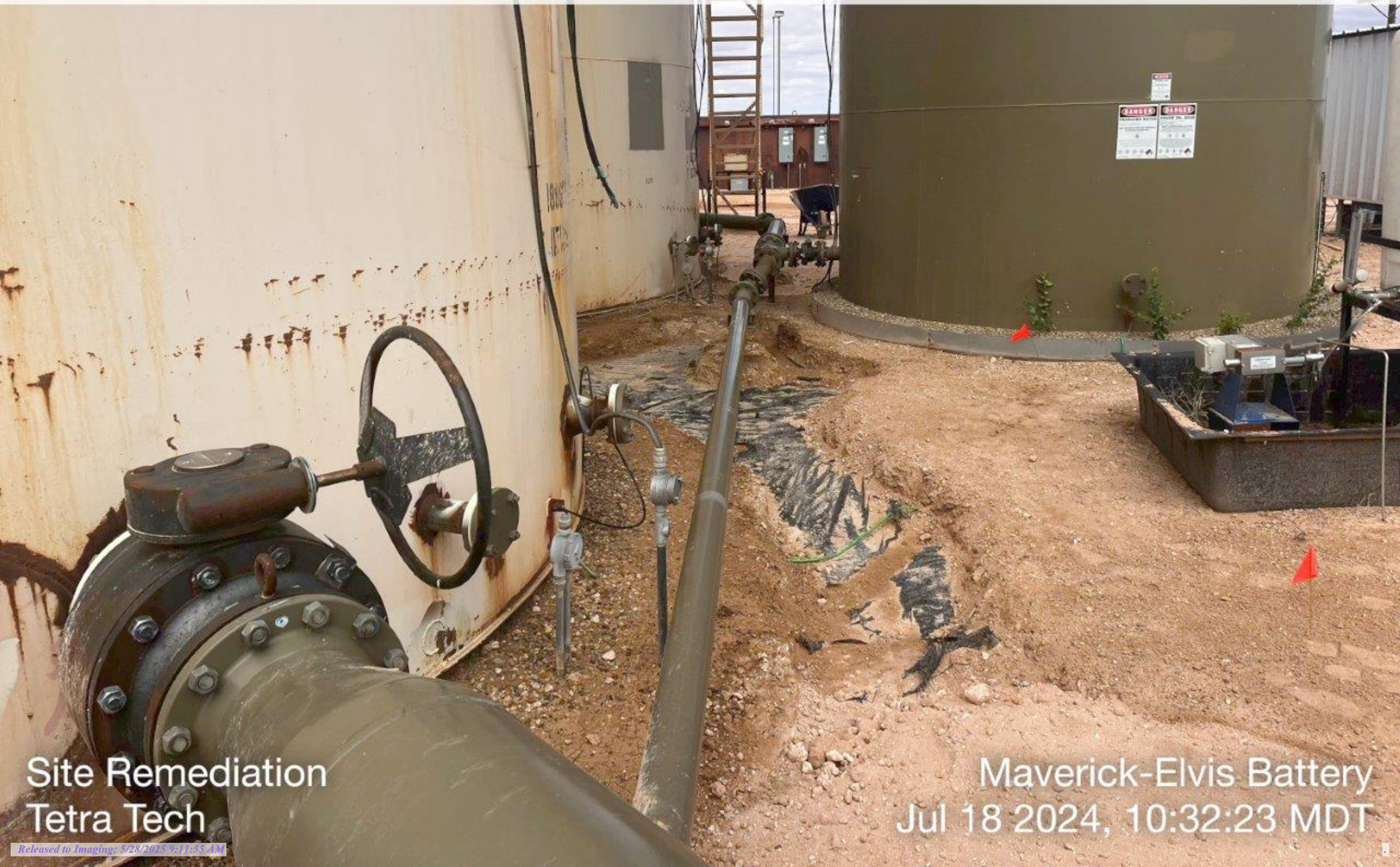
240

270

300

330

☉ 251°W (T) LAT: 32.8222203 LON: -103.790886 ±4m ▲ 1228m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 18 2024, 10:32:23 MDT



SW

W

NW

N

210

240

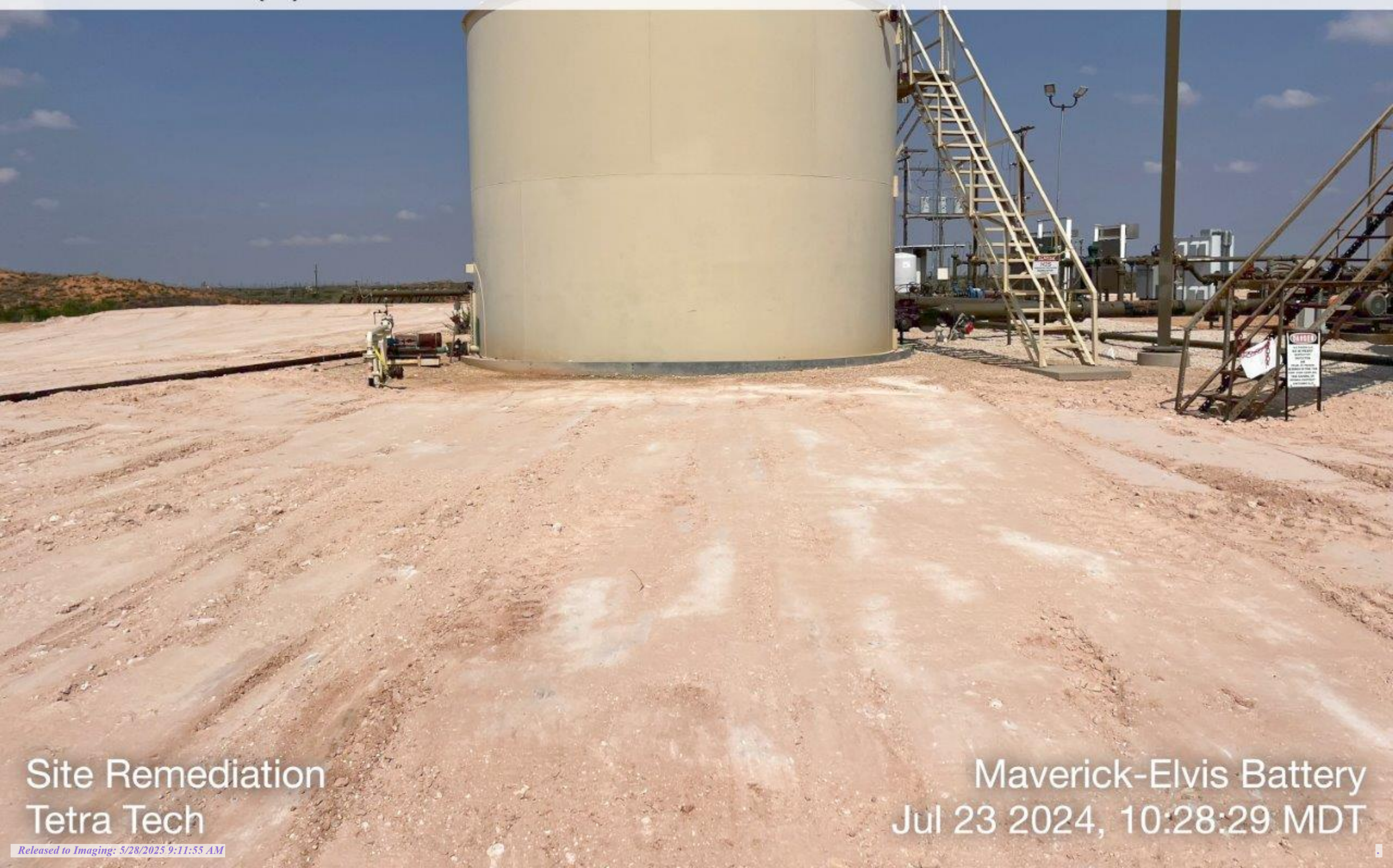
270

300

330

0

☉ 281°W (T) LAT: 32.822086 LON: -103.790594 ±4m ▲ 1220m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 23 2024, 10:28:29 MDT



SW

W

NW

N

210

240

270

300

330

0

☉ 282°W (T) LAT: 32.822132 LON: -103.790601 ±4m ▲ 1218m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 23 2024, 10:28:38 MDT





☉ 275°W (T) LAT: 32.822176 LON: -103.790694 ±4m ▲ 1218m

Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 23 2024, 10:28:49 MDT



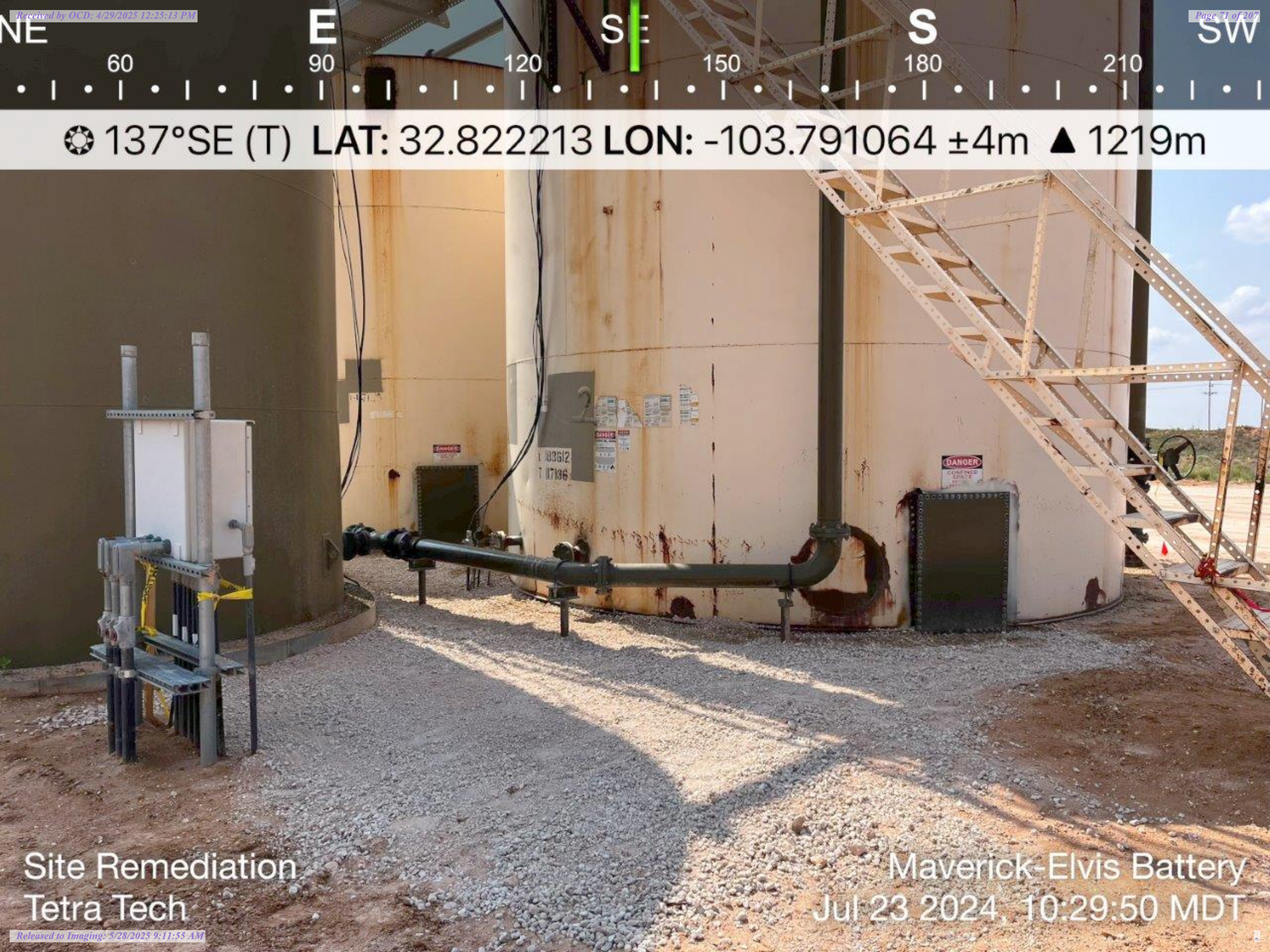


☉ 269°W (T) LAT: 32.822181 LON: -103.790788 ±4m ▲ 1218m

Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 23 2024, 10:29:01 MDT





☀ 137°SE (T) LAT: 32.822213 LON: -103.791064 ±4m ▲ 1219m

Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 23 2024, 10:29:50 MDT



NE

E

SE

S

30

60

90

120

150

180

☉ 112°E (T) LAT: 32.822105 LON: -103.791112 ±4m ▲ 1219m



Site Remediation  
Tetra Tech

Maverick-Elvis Battery  
Jul 23 2024, 10:30:14 MDT



Remediation Report and Closure Request  
Elvis Tank Battery Release  
Incident ID# nDHR1917849099

Maverick Permian, LLC  
April 29, 2025

## **ATTACHMENT 4 – LABORATORY ANALYTICAL DATA**



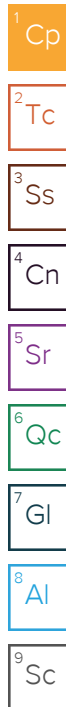


## ANALYTICAL REPORT

March 05, 2020

**ConocoPhillips - Tetra Tech**

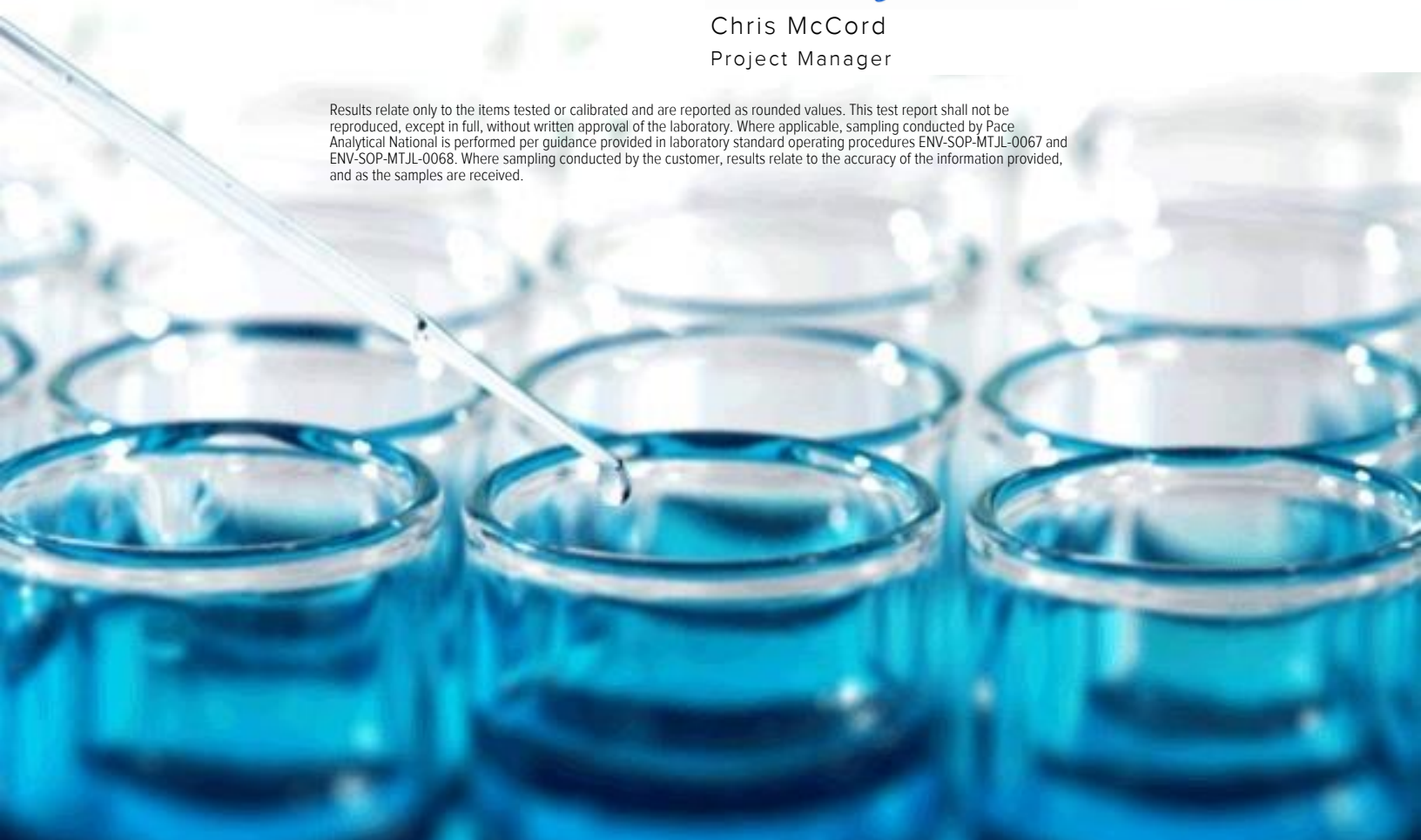
Sample Delivery Group: L1193167  
Samples Received: 02/26/2020  
Project Number: 212C-MD-02060  
Description: COP Elvis Tank Battery  
Site: LEA COUNTY, NEW MEXICO  
Report To: Christian Llull  
901 West Wall  
Suite 100  
Midland, TX 79701



Entire Report Reviewed By:

Chris McCord  
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><div>1</div>Cp</div>
Tc: Table of Contents	2	
Ss: Sample Summary	3	<div><div>2</div>Tc</div>
Cn: Case Narrative	5	
Sr: Sample Results	6	<div><div>3</div>Ss</div>
AH-1 (0'-1') L1193167-01	6	
AH-1 (2'-3') L1193167-02	7	<div><div>4</div>Cn</div>
AH-2 (0'-0.5') L1193167-03	8	<div><div>5</div>Sr</div>
AH-3 (0'-0.5') L1193167-04	9	
AH-4 (0'-0.5') L1193167-05	10	<div><div>6</div>Qc</div>
AH-5 (0'-0.5') L1193167-06	11	
Qc: Quality Control Summary	12	<div><div>7</div>Gl</div>
Total Solids by Method 2540 G-2011	12	
Wet Chemistry by Method 300.0	14	<div><div>8</div>Al</div>
Volatile Organic Compounds (GC) by Method 8015D/GRO	15	
Volatile Organic Compounds (GC/MS) by Method 8260B	18	
Semi-Volatile Organic Compounds (GC) by Method 8015	21	<div><div>9</div>Sc</div>
Gl: Glossary of Terms	23	
Al: Accreditations & Locations	24	
Sc: Sample Chain of Custody	25	



## AH-1 (0'-1') L1193167-01 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	02/18/20 11:30	02/26/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1434655	1	02/27/20 21:30	02/27/20 21:45	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1437134	1	03/03/20 23:00	03/04/20 00:56	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1435244	1	02/27/20 09:01	02/28/20 12:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435261	1	02/27/20 09:01	02/27/20 22:09	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436142	1	02/29/20 16:18	03/01/20 13:59	KME	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

## AH-1 (2'-3') L1193167-02 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	02/18/20 11:45	02/26/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1434657	1	02/27/20 21:49	02/27/20 22:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1437134	1	03/03/20 23:00	03/04/20 01:05	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437020	1	02/27/20 09:01	03/03/20 16:30	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435261	1	02/27/20 09:01	02/27/20 22:28	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436142	1	02/29/20 16:18	03/01/20 15:02	KME	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

## AH-2 (0'-0.5') L1193167-03 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	02/18/20 13:00	02/26/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1434657	1	02/27/20 21:49	02/27/20 22:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1437134	20	03/03/20 23:00	03/04/20 01:14	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437020	25	02/27/20 09:01	03/03/20 16:54	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1436313	1	02/27/20 09:01	03/01/20 11:25	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436428	20	03/03/20 08:41	03/04/20 11:59	KME	Mt. Juliet, TN

9 Sc

## AH-3 (0'-0.5') L1193167-04 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	02/18/20 13:10	02/26/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1434657	1	02/27/20 21:49	02/27/20 22:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1437134	20	03/03/20 23:00	03/04/20 01:24	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437020	100	02/27/20 09:01	03/03/20 17:18	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1436313	10	02/27/20 09:01	03/01/20 11:45	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436428	40	03/03/20 08:41	03/04/20 12:25	KME	Mt. Juliet, TN

## AH-4 (0'-0.5') L1193167-05 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	02/18/20 13:20	02/26/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1434657	1	02/27/20 21:49	02/27/20 22:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1437134	1	03/03/20 23:00	03/04/20 01:33	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1436167	1	02/27/20 09:01	03/01/20 17:07	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435277	1	02/27/20 09:01	02/27/20 20:52	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436428	1	03/03/20 08:41	03/04/20 08:46	KME	Mt. Juliet, TN



AH-5 (0'-0.5') L1193167-06 Solid

Collected by  
Joe Tyler

Collected date/time  
02/18/20 13:30

Received date/time  
02/26/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1434657	1	02/27/20 21:49	02/27/20 22:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1437134	1	03/03/20 23:00	03/04/20 01:43	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1436167	1	02/27/20 09:01	03/01/20 17:31	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435277	1	02/27/20 09:01	02/27/20 22:09	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436428	1	03/03/20 08:41	03/04/20 08:21	KME	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

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



Collected date/time: 02/18/20 11:30

L1193167

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.7		1	02/27/2020 21:45	<a href="#">WG1434655</a>

## 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	10.6	<u>B</u>	0.814	10.2	1	03/04/2020 00:56	<a href="#">WG1437134</a>

## 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		0.0222	0.102	1	02/28/2020 12:17	<a href="#">WG1435244</a>
(S) a,a,a-Trifluorotoluene(FID)	94.3			77.0-120		02/28/2020 12:17	<a href="#">WG1435244</a>

## 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		0.000409	0.00102	1	02/27/2020 22:09	<a href="#">WG1435261</a>
Toluene	U		0.00128	0.00512	1	02/27/2020 22:09	<a href="#">WG1435261</a>
Ethylbenzene	U		0.000542	0.00256	1	02/27/2020 22:09	<a href="#">WG1435261</a>
Total Xylenes	U		0.00489	0.00665	1	02/27/2020 22:09	<a href="#">WG1435261</a>
(S) Toluene-d8	99.1			75.0-131		02/27/2020 22:09	<a href="#">WG1435261</a>
(S) 4-Bromofluorobenzene	95.9			67.0-138		02/27/2020 22:09	<a href="#">WG1435261</a>
(S) 1,2-Dichloroethane-d4	98.1			70.0-130		02/27/2020 22:09	<a href="#">WG1435261</a>

## 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	2.98	<u>J</u>	1.65	4.09	1	03/01/2020 13:59	<a href="#">WG1436142</a>
C28-C40 Oil Range	12.9		0.280	4.09	1	03/01/2020 13:59	<a href="#">WG1436142</a>
(S) o-Terphenyl	61.7			18.0-148		03/01/2020 13:59	<a href="#">WG1436142</a>



Collected date/time: 02/18/20 11:45

L1193167

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.1		1	02/27/2020 22:02	<a href="#">WG1434657</a>

## 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	26.8	<u>B</u>	0.818	10.3	1	03/04/2020 01:05	<a href="#">WG1437134</a>

## 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		0.0223	0.103	1	03/03/2020 16:30	<a href="#">WG1437020</a>
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120		03/03/2020 16:30	<a href="#">WG1437020</a>

## 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		0.000412	0.00103	1	02/27/2020 22:28	<a href="#">WG1435261</a>
Toluene	U		0.00129	0.00515	1	02/27/2020 22:28	<a href="#">WG1435261</a>
Ethylbenzene	U		0.000546	0.00257	1	02/27/2020 22:28	<a href="#">WG1435261</a>
Total Xylenes	U		0.00492	0.00669	1	02/27/2020 22:28	<a href="#">WG1435261</a>
(S) Toluene-d8	98.3			75.0-131		02/27/2020 22:28	<a href="#">WG1435261</a>
(S) 4-Bromofluorobenzene	94.1			67.0-138		02/27/2020 22:28	<a href="#">WG1435261</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/27/2020 22:28	<a href="#">WG1435261</a>

## 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	9.90		1.66	4.12	1	03/01/2020 15:02	<a href="#">WG1436142</a>
C28-C40 Oil Range	33.2		0.282	4.12	1	03/01/2020 15:02	<a href="#">WG1436142</a>
(S) o-Terphenyl	55.5			18.0-148		03/01/2020 15:02	<a href="#">WG1436142</a>



Collected date/time: 02/18/20 13:00

L1193167

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.4		1	02/27/2020 22:02	<a href="#">WG1434657</a>

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	999		16.5	207	20	03/04/2020 01:14	<a href="#">WG1437134</a>

## 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	9.12		0.563	2.59	25	03/03/2020 16:54	<a href="#">WG1437020</a>
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		03/03/2020 16:54	<a href="#">WG1437020</a>

## 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	0.000830	J	0.000415	0.00104	1	03/01/2020 11:25	<a href="#">WG1436313</a>
Toluene	0.0248		0.00130	0.00518	1	03/01/2020 11:25	<a href="#">WG1436313</a>
Ethylbenzene	0.00983		0.000550	0.00259	1	03/01/2020 11:25	<a href="#">WG1436313</a>
Total Xylenes	0.0473		0.00496	0.00674	1	03/01/2020 11:25	<a href="#">WG1436313</a>
(S) Toluene-d8	107			75.0-131		03/01/2020 11:25	<a href="#">WG1436313</a>
(S) 4-Bromofluorobenzene	109			67.0-138		03/01/2020 11:25	<a href="#">WG1436313</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		03/01/2020 11:25	<a href="#">WG1436313</a>

## 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	4490		33.4	83.0	20	03/04/2020 11:59	<a href="#">WG1436428</a>
C28-C40 Oil Range	2000		5.68	83.0	20	03/04/2020 11:59	<a href="#">WG1436428</a>
(S) o-Terphenyl	467	J7		18.0-148		03/04/2020 11:59	<a href="#">WG1436428</a>



Collected date/time: 02/18/20 13:10

L1193167

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.2		1	02/27/2020 22:02	<a href="#">WG1434657</a>

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	4520		16.4	206	20	03/04/2020 01:24	<a href="#">WG1437134</a>

## 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	48.6		2.23	10.3	100	03/03/2020 17:18	<a href="#">WG1437020</a>
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120		03/03/2020 17:18	<a href="#">WG1437020</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.0239		0.00412	0.0103	10	03/01/2020 11:45	<a href="#">WG1436313</a>
Toluene	0.0415	J	0.0129	0.0515	10	03/01/2020 11:45	<a href="#">WG1436313</a>
Ethylbenzene	0.0167	J	0.00545	0.0257	10	03/01/2020 11:45	<a href="#">WG1436313</a>
Total Xylenes	0.696		0.0492	0.0669	10	03/01/2020 11:45	<a href="#">WG1436313</a>
(S) Toluene-d8	105			75.0-131		03/01/2020 11:45	<a href="#">WG1436313</a>
(S) 4-Bromofluorobenzene	108			67.0-138		03/01/2020 11:45	<a href="#">WG1436313</a>
(S) 1,2-Dichloroethane-d4	116			70.0-130		03/01/2020 11:45	<a href="#">WG1436313</a>

## 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	10400		66.3	165	40	03/04/2020 12:25	<a href="#">WG1436428</a>
C28-C40 Oil Range	4760		11.3	165	40	03/04/2020 12:25	<a href="#">WG1436428</a>
(S) o-Terphenyl	1640	J7		18.0-148		03/04/2020 12:25	<a href="#">WG1436428</a>



Collected date/time: 02/18/20 13:20

L1193167

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.5		1	02/27/2020 22:02	<a href="#">WG1434657</a>

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	458		0.807	10.1	1	03/04/2020 01:33	<a href="#">WG1437134</a>

## 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	U		0.0220	0.101	1	03/01/2020 17:07	<a href="#">WG1436167</a>
(S) a,a,a-Trifluorotoluene(FID)	98.3			77.0-120		03/01/2020 17:07	<a href="#">WG1436167</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000507	J	0.000406	0.00101	1	02/27/2020 20:52	<a href="#">WG1435277</a>
Toluene	U		0.00127	0.00507	1	02/27/2020 20:52	<a href="#">WG1435277</a>
Ethylbenzene	U		0.000538	0.00254	1	02/27/2020 20:52	<a href="#">WG1435277</a>
Total Xylenes	U		0.00485	0.00660	1	02/27/2020 20:52	<a href="#">WG1435277</a>
(S) Toluene-d8	101			75.0-131		02/27/2020 20:52	<a href="#">WG1435277</a>
(S) 4-Bromofluorobenzene	94.1			67.0-138		02/27/2020 20:52	<a href="#">WG1435277</a>
(S) 1,2-Dichloroethane-d4	86.6			70.0-130		02/27/2020 20:52	<a href="#">WG1435277</a>

## 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	71.4		1.63	4.06	1	03/04/2020 08:46	<a href="#">WG1436428</a>
C28-C40 Oil Range	69.7		0.278	4.06	1	03/04/2020 08:46	<a href="#">WG1436428</a>
(S) o-Terphenyl	15.0	J2		18.0-148		03/04/2020 08:46	<a href="#">WG1436428</a>

## Sample Narrative:

L1193167-05 WG1436428: Surrogate failure due to matrix interference



Collected date/time: 02/18/20 13:30

L1193167

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.9		1	02/27/2020 22:02	<a href="#">WG1434657</a>

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	269		0.855	10.8	1	03/04/2020 01:43	<a href="#">WG1437134</a>

## 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	U		0.0234	0.108	1	03/01/2020 17:31	<a href="#">WG1436167</a>
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120		03/01/2020 17:31	<a href="#">WG1436167</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000430	0.00108	1	02/27/2020 22:09	<a href="#">WG1435277</a>
Toluene	U		0.00135	0.00538	1	02/27/2020 22:09	<a href="#">WG1435277</a>
Ethylbenzene	U		0.000570	0.00269	1	02/27/2020 22:09	<a href="#">WG1435277</a>
Total Xylenes	U		0.00514	0.00699	1	02/27/2020 22:09	<a href="#">WG1435277</a>
(S) Toluene-d8	96.7			75.0-131		02/27/2020 22:09	<a href="#">WG1435277</a>
(S) 4-Bromofluorobenzene	94.6			67.0-138		02/27/2020 22:09	<a href="#">WG1435277</a>
(S) 1,2-Dichloroethane-d4	88.8			70.0-130		02/27/2020 22:09	<a href="#">WG1435277</a>

## 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	6.38		1.73	4.30	1	03/04/2020 08:21	<a href="#">WG1436428</a>
C28-C40 Oil Range	4.13	J	0.295	4.30	1	03/04/2020 08:21	<a href="#">WG1436428</a>
(S) o-Terphenyl	63.7			18.0-148		03/04/2020 08:21	<a href="#">WG1436428</a>



Total Solids by Method 2540 G-2011 [L1193167-01](#)

Method Blank (MB)

(MB) R3503973-1 02/27/20 21:45

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00600			

L1193150-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1193150-05 02/27/20 21:45 • (DUP) R3503973-3 02/27/20 21:45

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	89.8	89.5	1	0.360		10

Laboratory Control Sample (LCS)

(LCS) R3503973-2 02/27/20 21:45

	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 [L1193167-02,03,04,05,06](#)

Method Blank (MB)

(MB) R3503974-1 02/27/20 22:02

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

L1193167-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1193167-02 02/27/20 22:02 • (DUP) R3503974-3 02/27/20 22:02

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	97.1	97.2	1	0.0273		10

Laboratory Control Sample (LCS)

(LCS) R3503974-2 02/27/20 22:02

	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



Wet Chemistry by Method 300.0 [L1193167-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R3505117-1 03/04/20 00:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	2.72	<span>⬇</span>	0.795	10.0

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1193765-39 Original Sample (OS) • Duplicate (DUP)

(OS) L1193765-39 03/04/20 02:50 • (DUP) R3505117-5 03/04/20 02:59

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	10900	8660	100	23.0	<span>⬇3</span>	20

L1194117-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1194117-07 03/04/20 04:34 • (DUP) R3505117-6 03/04/20 04:44

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1210	1180	5	2.31		20

Laboratory Control Sample (LCS)

(LCS) R3505117-2 03/04/20 00:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	195	97.5	90.0-110	

L1193167-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1193167-06 03/04/20 01:43 • (MS) R3505117-3 03/04/20 01:52 • (MSD) R3505117-4 03/04/20 02:02

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 %
Chloride	538	269	805	823	99.7	103	1	80.0-120			2.22	20



Volatile Organic Compounds (GC) by Method 8015D/GRO [L1193167-01](#)

Method Blank (MB)

(MB) R3503849-5 02/28/20 02:57

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)	91.6			77.0-120

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

(LCS) R3503849-3 02/28/20 01:56 • (LCSD) R3503849-4 02/28/20 02:16

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	5.83	5.07	106	92.2	72.0-127			13.9	20
(S) a,a,a-Trifluorotoluene(FID)				107	102	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

L1193167-05.06

Method Blank (MB)

(MB) R3504820-3 03/01/20 09:42

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)	99.3			77.0-120

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

(LCS) R3504820-1 03/01/20 08:30 • (LCSD) R3504820-2 03/01/20 08:54

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	5.91	5.42	107	98.5	72.0-127			8.65	20
(S) a,a,a-Trifluorotoluene(FID)				109	106	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

L1193167-02,03,04

Method Blank (MB)

(MB) R3504970-2 03/03/20 14:07

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)	98.8			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3504970-1 03/03/20 13:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.91	107	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			108	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

L1193167-01.02

Method Blank (MB)

(MB) R3504206-2 02/27/20 19:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	99.4			75.0-131
(S) 4-Bromofluorobenzene	96.9			67.0-138
(S) 1,2-Dichloroethane-d4	101			70.0-130

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3504206-1 02/27/20 18:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.126	101	70.0-123	
Ethylbenzene	0.125	0.0982	78.6	74.0-126	
Toluene	0.125	0.0991	79.3	75.0-121	
Xylenes, Total	0.375	0.307	81.9	72.0-127	
(S) Toluene-d8			93.9	75.0-131	
(S) 4-Bromofluorobenzene			97.8	67.0-138	
(S) 1,2-Dichloroethane-d4			113	70.0-130	

L1193167-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1193167-02 02/27/20 22:28 • (MS) R3504206-3 02/28/20 03:50 • (MSD) R3504206-4 02/28/20 04:08

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 %
Benzene	0.129	U	0.143	0.138	111	107	1	10.0-149			3.66	37
Ethylbenzene	0.129	U	0.114	0.114	88.8	88.8	1	10.0-160			0.000	38
Toluene	0.129	U	0.120	0.119	93.6	92.8	1	10.0-156			0.858	38
Xylenes, Total	0.386	U	0.370	0.349	95.7	90.4	1	10.0-160			5.73	38
(S) Toluene-d8					97.3	97.7		75.0-131				
(S) 4-Bromofluorobenzene					98.7	96.3		67.0-138				
(S) 1,2-Dichloroethane-d4					106	100		70.0-130				



Volatile Organic Compounds (GC/MS) by Method 8260B L1193167-05.06

Method Blank (MB)

(MB) R3503885-2 02/27/20 20:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	97.2			75.0-131
(S) 4-Bromofluorobenzene	93.2			67.0-138
(S) 1,2-Dichloroethane-d4	88.4			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)

(LCS) R3503885-1 02/27/20 19:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.146	117	70.0-123	
Ethylbenzene	0.125	0.129	103	74.0-126	
Toluene	0.125	0.110	88.0	75.0-121	
Xylenes, Total	0.375	0.387	103	72.0-127	
(S) Toluene-d8			89.6	75.0-131	
(S) 4-Bromofluorobenzene			96.1	67.0-138	
(S) 1,2-Dichloroethane-d4			99.7	70.0-130	

L1193167-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1193167-06 02/27/20 22:09 • (MS) R3503885-3 02/28/20 03:59 • (MSD) R3503885-4 02/28/20 04:18

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 %
Benzene	0.135	U	0.153	0.146	114	109	1	10.0-149			4.32	37
Ethylbenzene	0.135	U	0.139	0.138	103	102	1	10.0-160			0.778	38
Toluene	0.135	U	0.128	0.123	95.2	91.2	1	10.0-156			4.29	38
Xylenes, Total	0.404	U	0.418	0.406	103	101	1	10.0-160			2.88	38
(S) Toluene-d8					97.5	96.3		75.0-131				
(S) 4-Bromofluorobenzene					96.2	94.9		67.0-138				
(S) 1,2-Dichloroethane-d4					90.4	91.5		70.0-130				



Method Blank (MB)

(MB) R3504946-3 03/01/20 07:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	109			75.0-131
(S) 4-Bromofluorobenzene	89.8			67.0-138
(S) 1,2-Dichloroethane-d4	93.9			70.0-130

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

(LCS) R3504946-1 03/01/20 06:19 • (LCSD) R3504946-2 03/01/20 06:38

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	0.122	0.128	97.6	102	70.0-123			4.80	20
Ethylbenzene	0.125	0.117	0.120	93.6	96.0	74.0-126			2.53	20
Toluene	0.125	0.118	0.123	94.4	98.4	75.0-121			4.15	20
Xylenes, Total	0.375	0.348	0.374	92.8	99.7	72.0-127			7.20	20
(S) Toluene-d8				101	104	75.0-131				
(S) 4-Bromofluorobenzene				96.1	96.8	67.0-138				
(S) 1,2-Dichloroethane-d4				105	105	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Semi-Volatile Organic Compounds (GC) by Method 8015 [L1193167-01.02](#)

Method Blank (MB)

(MB) R3504350-2 03/01/20 13:21

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	0.421	J	0.274	4.00
(S) o-Terphenyl	60.8			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3504350-1 03/01/20 11:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	33.8	67.6	50.0-150	
(S) o-Terphenyl			67.1	18.0-148	

L1193150-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1193150-03 03/01/20 14:24 • (MS) R3504350-3 03/01/20 14:37 • (MSD) R3504350-4 03/01/20 14:49

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	55.3	14.4	52.4	41.9	68.8	50.0	1	50.0-150		J3	22.3	20
(S) o-Terphenyl					61.0	54.8		18.0-148				

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc



Semi-Volatile Organic Compounds (GC) by Method 8015 [L1193167-03,04,05,06](#)

Method Blank (MB)

(MB) R3505106-1 03/04/20 04:26

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	U		0.274	4.00
(S) o-Terphenyl	62.8			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3505106-2 03/04/20 04:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	40.0	80.0	50.0-150	
(S) o-Terphenyl			77.0	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.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

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 <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1 6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	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

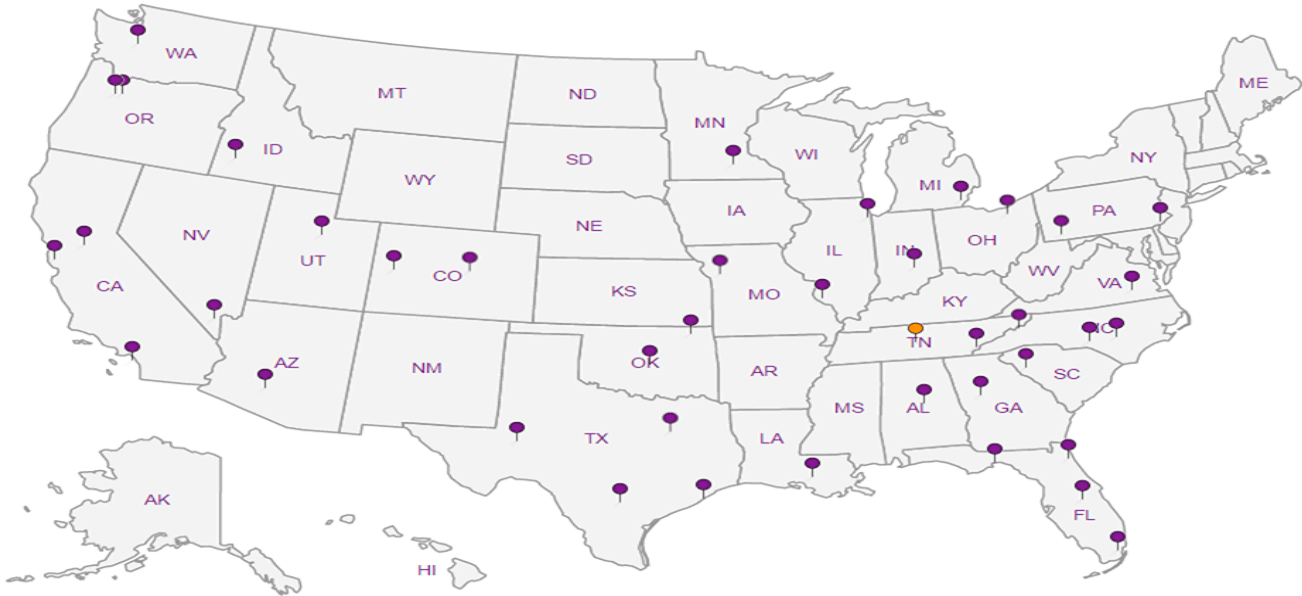
Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water   <sup>2</sup> Underground Storage Tanks   <sup>3</sup> Aquatic Toxicity   <sup>4</sup> Chemical/Microbiological   <sup>5</sup> Mold   <sup>6</sup> 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.





[illegible]

*Released to Imaging: 5/28/2025 9:11:55 AM*

Containers Received 6

RAD SCREEN: &lt;0.5 mR/hr



Pace Analytical National Center for Testing & Innovation Cooler Receipt Form			
Client:		L1193167	
Cooler Received/Opened On: 2 126 / 20		Temperature:	3.5
Received by: Willie Taylor 800			
Signature: Willie Taylor			
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			



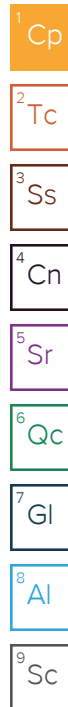


## ANALYTICAL REPORT

March 06, 2020

**ConocoPhillips - Tetra Tech**

Sample Delivery Group: L1193661  
Samples Received: 02/27/2020  
Project Number: 212C-MD-02060  
Description: COP Elvis Tank Battery  
Site: LEA COUNTY, NEW MEXICO  
Report To: Christian Llull  
901 West Wall  
Suite 100  
Midland, TX 79701



Entire Report Reviewed By:

Chris McCord  
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.



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## BH-2 (0'-1') L1193661-01 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 11:00

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435869	1	03/02/20 14:29	03/02/20 14:38	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 12:18	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437039	1	02/28/20 14:19	03/03/20 06:12	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 18:41	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436663	1	03/02/20 10:16	03/02/20 19:47	KME	Mt. Juliet, TN

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BH-2 (2'-3') L1193661-02 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 11:10

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435869	1	03/02/20 14:29	03/02/20 14:38	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 12:28	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437039	1	02/28/20 14:19	03/03/20 06:36	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 19:01	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436663	1	03/02/20 10:16	03/04/20 10:02	KME	Mt. Juliet, TN

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BH-2 (4'-5') L1193661-03 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 11:20

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435871	1	03/02/20 14:15	03/02/20 14:27	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 12:38	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437039	1	02/28/20 14:19	03/03/20 07:00	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 19:21	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436869	1	03/04/20 07:41	03/04/20 19:47	FM	Mt. Juliet, TN

<sup>9</sup> Sc

## BH-2 (6'-7') L1193661-04 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 11:30

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435871	1	03/02/20 14:15	03/02/20 14:27	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 12:47	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437039	1	02/28/20 14:19	03/03/20 07:24	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 19:41	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436869	1	03/04/20 07:41	03/04/20 18:56	FM	Mt. Juliet, TN

## BH-3 (0'-1') L1193661-05 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 11:50

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435871	1	03/02/20 14:15	03/02/20 14:27	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 12:57	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437039	1	02/28/20 14:19	03/03/20 07:48	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 20:01	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436869	1	03/04/20 07:41	03/04/20 19:09	FM	Mt. Juliet, TN



## BH-3 (2'-3') L1193661-06 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 12:00

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435871	1	03/02/20 14:15	03/02/20 14:27	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 13:06	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437039	1	02/28/20 14:19	03/03/20 08:12	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 20:22	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436869	1	03/04/20 07:41	03/04/20 20:12	FM	Mt. Juliet, TN

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BH-3 (4'-5') L1193661-07 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 12:10

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435871	1	03/02/20 14:15	03/02/20 14:27	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 13:25	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437039	1	02/28/20 14:19	03/03/20 09:26	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 20:42	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436869	1	03/04/20 07:41	03/04/20 19:21	FM	Mt. Juliet, TN

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BH-3 (6'-7') L1193661-08 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 12:20

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435871	1	03/02/20 14:15	03/02/20 14:27	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 13:54	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437039	1	02/28/20 14:19	03/03/20 09:50	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 21:02	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436869	1	03/04/20 07:41	03/04/20 19:34	FM	Mt. Juliet, TN

<sup>9</sup> Sc

## AH-6 (0'-1') L1193661-09 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 13:00

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435871	1	03/02/20 14:15	03/02/20 14:27	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 14:03	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437326	1	02/28/20 14:19	03/03/20 21:17	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 21:22	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1438752	1	03/05/20 17:20	03/06/20 04:28	JDG	Mt. Juliet, TN

## AH-6 (2'-3') L1193661-10 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 13:10

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435871	1	03/02/20 14:15	03/02/20 14:27	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 14:13	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437251	1	02/28/20 14:19	03/03/20 17:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 21:42	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436869	1	03/04/20 07:41	03/04/20 18:30	FM	Mt. Juliet, TN



## AH-6 (4'-5') L1193661-11 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 13:20

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435871	1	03/02/20 14:15	03/02/20 14:27	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 14:22	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437251	1	02/28/20 14:19	03/03/20 17:25	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 22:02	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436869	1	03/04/20 07:41	03/04/20 18:43	FM	Mt. Juliet, TN

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## AH-7 (0'-1') L1193661-12 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 14:00

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435871	1	03/02/20 14:15	03/02/20 14:27	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 14:32	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437251	1	02/28/20 14:19	03/03/20 17:47	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 22:22	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436869	1	03/04/20 07:41	03/04/20 17:39	FM	Mt. Juliet, TN

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## AH-7 (2'-3') L1193661-13 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 14:10

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435873	1	02/29/20 23:47	02/29/20 23:58	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 14:41	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1438732	1	02/28/20 14:19	03/05/20 15:22	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 22:43	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436869	1	03/04/20 07:41	03/04/20 17:52	FM	Mt. Juliet, TN

<sup>9</sup> Sc

## AH-7 (4'-5') L1193661-14 Solid

Collected by  
Joe Tyler

Collected date/time  
02/25/20 14:20

Received date/time  
02/27/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1435873	1	02/29/20 23:47	02/29/20 23:58	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1436108	1	03/04/20 10:46	03/04/20 15:00	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1437041	1	02/28/20 14:19	03/03/20 02:00	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1435956	1	02/28/20 14:19	02/28/20 23:03	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1436869	1	03/04/20 07:41	03/04/20 18:04	FM	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

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



Collected date/time: 02/25/20 11:00

L1193661

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.8		1	03/02/2020 14:38	<a href="#">WG1435869</a>

## 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	235		0.905	11.4	1	03/04/2020 12:18	<a href="#">WG1436108</a>

## 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		0.0247	0.114	1	03/03/2020 06:12	<a href="#">WG1437039</a>
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120		03/03/2020 06:12	<a href="#">WG1437039</a>

## 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		0.000455	0.00114	1	02/28/2020 18:41	<a href="#">WG1435956</a>
Toluene	U		0.00142	0.00569	1	02/28/2020 18:41	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000604	0.00285	1	02/28/2020 18:41	<a href="#">WG1435956</a>
Total Xylenes	U		0.00544	0.00740	1	02/28/2020 18:41	<a href="#">WG1435956</a>
(S) Toluene-d8	111			75.0-131		02/28/2020 18:41	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	102			67.0-138		02/28/2020 18:41	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/28/2020 18:41	<a href="#">WG1435956</a>

## 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	49.0		1.83	4.55	1	03/02/2020 19:47	<a href="#">WG1436663</a>
C28-C40 Oil Range	92.2		0.312	4.55	1	03/02/2020 19:47	<a href="#">WG1436663</a>
(S) o-Terphenyl	67.8			18.0-148		03/02/2020 19:47	<a href="#">WG1436663</a>



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.0		1	03/02/2020 14:38	<a href="#">WG1435869</a>

## 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	93.6		0.811	10.2	1	03/04/2020 12:28	<a href="#">WG1436108</a>

## 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		0.0221	0.102	1	03/03/2020 06:36	<a href="#">WG1437039</a>
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120		03/03/2020 06:36	<a href="#">WG1437039</a>

## 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		0.000408	0.00102	1	02/28/2020 19:01	<a href="#">WG1435956</a>
Toluene	U		0.00128	0.00510	1	02/28/2020 19:01	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000541	0.00255	1	02/28/2020 19:01	<a href="#">WG1435956</a>
Total Xylenes	U		0.00488	0.00663	1	02/28/2020 19:01	<a href="#">WG1435956</a>
(S) Toluene-d8	111			75.0-131		02/28/2020 19:01	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	104			67.0-138		02/28/2020 19:01	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		02/28/2020 19:01	<a href="#">WG1435956</a>

## 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	2.37	<a href="#">B J</a>	1.64	4.08	1	03/04/2020 10:02	<a href="#">WG1436663</a>
C28-C40 Oil Range	4.67		0.280	4.08	1	03/04/2020 10:02	<a href="#">WG1436663</a>
(S) o-Terphenyl	66.7			18.0-148		03/04/2020 10:02	<a href="#">WG1436663</a>



Collected date/time: 02/25/20 11:20

L1193661

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.2		1	03/02/2020 14:27	<a href="#">WG1435871</a>

## 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	33.0		0.809	10.2	1	03/04/2020 12:38	<a href="#">WG1436108</a>

## 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		0.0221	0.102	1	03/03/2020 07:00	<a href="#">WG1437039</a>
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120		03/03/2020 07:00	<a href="#">WG1437039</a>

## 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		0.000407	0.00102	1	02/28/2020 19:21	<a href="#">WG1435956</a>
Toluene	U		0.00127	0.00509	1	02/28/2020 19:21	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000539	0.00254	1	02/28/2020 19:21	<a href="#">WG1435956</a>
Total Xylenes	U		0.00487	0.00662	1	02/28/2020 19:21	<a href="#">WG1435956</a>
(S) Toluene-d8	110			75.0-131		02/28/2020 19:21	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	101			67.0-138		02/28/2020 19:21	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	90.8			70.0-130		02/28/2020 19:21	<a href="#">WG1435956</a>

## 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	U		1.64	4.07	1	03/04/2020 19:47	<a href="#">WG1436869</a>
C28-C40 Oil Range	3.05	J	0.279	4.07	1	03/04/2020 19:47	<a href="#">WG1436869</a>
(S) o-Terphenyl	55.0			18.0-148		03/04/2020 19:47	<a href="#">WG1436869</a>



Collected date/time: 02/25/20 11:30

L1193661

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.7		1	03/02/2020 14:27	<a href="#">WG1435871</a>

## 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	46.0		0.806	10.1	1	03/04/2020 12:47	<a href="#">WG1436108</a>

## 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	03/03/2020 07:24	<a href="#">WG1437039</a>
(S) a,a,a-Trifluorotoluene(FID)	97.6			77.0-120		03/03/2020 07:24	<a href="#">WG1437039</a>

## 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		0.000405	0.00101	1	02/28/2020 19:41	<a href="#">WG1435956</a>
Toluene	U		0.00127	0.00507	1	02/28/2020 19:41	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000537	0.00253	1	02/28/2020 19:41	<a href="#">WG1435956</a>
Total Xylenes	U		0.00484	0.00659	1	02/28/2020 19:41	<a href="#">WG1435956</a>
(S) Toluene-d8	112			75.0-131		02/28/2020 19:41	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	102			67.0-138		02/28/2020 19:41	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/28/2020 19:41	<a href="#">WG1435956</a>

## 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		1.63	4.05	1	03/04/2020 18:56	<a href="#">WG1436869</a>
C28-C40 Oil Range	2.94	J	0.278	4.05	1	03/04/2020 18:56	<a href="#">WG1436869</a>
(S) o-Terphenyl	67.2			18.0-148		03/04/2020 18:56	<a href="#">WG1436869</a>

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



Collected date/time: 02/25/20 11:50

L1193661

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	03/02/2020 14:27	<a href="#">WG1435871</a>

## 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	136		0.855	10.8	1	03/04/2020 12:57	<a href="#">WG1436108</a>

## 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		0.0233	0.108	1	03/03/2020 07:48	<a href="#">WG1437039</a>
(S) a,a,a-Trifluorotoluene(FID)	97.9			77.0-120		03/03/2020 07:48	<a href="#">WG1437039</a>

## 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		0.000430	0.00108	1	02/28/2020 20:01	<a href="#">WG1435956</a>
Toluene	U		0.00134	0.00538	1	02/28/2020 20:01	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000570	0.00269	1	02/28/2020 20:01	<a href="#">WG1435956</a>
Total Xylenes	U		0.00514	0.00699	1	02/28/2020 20:01	<a href="#">WG1435956</a>
(S) Toluene-d8	110			75.0-131		02/28/2020 20:01	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	102			67.0-138		02/28/2020 20:01	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	96.5			70.0-130		02/28/2020 20:01	<a href="#">WG1435956</a>

## 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	U		1.73	4.30	1	03/04/2020 19:09	<a href="#">WG1436869</a>
C28-C40 Oil Range	5.28		0.295	4.30	1	03/04/2020 19:09	<a href="#">WG1436869</a>
(S) o-Terphenyl	55.4			18.0-148		03/04/2020 19:09	<a href="#">WG1436869</a>

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	Batch
	%			date / time	
Total Solids	98.2		1	03/02/2020 14:27	<a href="#">WG1435871</a>

## 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	73.9		0.810	10.2	1	03/04/2020 13:06	<a href="#">WG1436108</a>

## 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		0.0221	0.102	1	03/03/2020 08:12	<a href="#">WG1437039</a>
(S) a,a,a-Trifluorotoluene(FID)	97.7			77.0-120		03/03/2020 08:12	<a href="#">WG1437039</a>

## 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		0.000408	0.00102	1	02/28/2020 20:22	<a href="#">WG1435956</a>
Toluene	U		0.00127	0.00509	1	02/28/2020 20:22	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000540	0.00255	1	02/28/2020 20:22	<a href="#">WG1435956</a>
Total Xylenes	U		0.00487	0.00662	1	02/28/2020 20:22	<a href="#">WG1435956</a>
(S) Toluene-d8	111			75.0-131		02/28/2020 20:22	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	101			67.0-138		02/28/2020 20:22	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	94.0			70.0-130		02/28/2020 20:22	<a href="#">WG1435956</a>

## 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	4.74		1.64	4.08	1	03/04/2020 20:12	<a href="#">WG1436869</a>
C28-C40 Oil Range	20.4		0.279	4.08	1	03/04/2020 20:12	<a href="#">WG1436869</a>
(S) o-Terphenyl	55.7			18.0-148		03/04/2020 20:12	<a href="#">WG1436869</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/25/20 12:10

L1193661

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.2		1	03/02/2020 14:27	<a href="#">WG1435871</a>

## 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	47.4		0.809	10.2	1	03/04/2020 13:25	<a href="#">WG1436108</a>

## 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		0.0221	0.102	1	03/03/2020 09:26	<a href="#">WG1437039</a>
(S) a,a,a-Trifluorotoluene(FID)	98.7			77.0-120		03/03/2020 09:26	<a href="#">WG1437039</a>

## 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		0.000407	0.00102	1	02/28/2020 20:42	<a href="#">WG1435956</a>
Toluene	U		0.00127	0.00509	1	02/28/2020 20:42	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000540	0.00255	1	02/28/2020 20:42	<a href="#">WG1435956</a>
Total Xylenes	U		0.00487	0.00662	1	02/28/2020 20:42	<a href="#">WG1435956</a>
(S) Toluene-d8	114			75.0-131		02/28/2020 20:42	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	93.2			67.0-138		02/28/2020 20:42	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	90.0			70.0-130		02/28/2020 20:42	<a href="#">WG1435956</a>

## 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	U		1.64	4.07	1	03/04/2020 19:21	<a href="#">WG1436869</a>
C28-C40 Oil Range	2.65	J	0.279	4.07	1	03/04/2020 19:21	<a href="#">WG1436869</a>
(S) o-Terphenyl	62.0			18.0-148		03/04/2020 19:21	<a href="#">WG1436869</a>

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



Collected date/time: 02/25/20 12:20

L1193661

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.6		1	03/02/2020 14:27	<a href="#">WG1435871</a>

## Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	93.9		0.918	11.6	1	03/04/2020 13:54	<a href="#">WG1436108</a>

## 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	U		0.0251	0.116	1	03/03/2020 09:50	<a href="#">WG1437039</a>
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120		03/03/2020 09:50	<a href="#">WG1437039</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000462	0.00116	1	02/28/2020 21:02	<a href="#">WG1435956</a>
Toluene	U		0.00144	0.00578	1	02/28/2020 21:02	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000612	0.00289	1	02/28/2020 21:02	<a href="#">WG1435956</a>
Total Xylenes	U		0.00552	0.00751	1	02/28/2020 21:02	<a href="#">WG1435956</a>
(S) Toluene-d8	111			75.0-131		02/28/2020 21:02	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	95.4			67.0-138		02/28/2020 21:02	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	87.3			70.0-130		02/28/2020 21:02	<a href="#">WG1435956</a>

## 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		1.86	4.62	1	03/04/2020 19:34	<a href="#">WG1436869</a>
C28-C40 Oil Range	1.58	J	0.317	4.62	1	03/04/2020 19:34	<a href="#">WG1436869</a>
(S) o-Terphenyl	53.2			18.0-148		03/04/2020 19:34	<a href="#">WG1436869</a>



Collected date/time: 02/25/20 13:00

L1193661

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	76.9		1	03/02/2020 14:27	<a href="#">WG1435871</a>

## 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	155		1.03	13.0	1	03/04/2020 14:03	<a href="#">WG1436108</a>

## 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		0.0282	0.130	1	03/03/2020 21:17	<a href="#">WG1437326</a>
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		03/03/2020 21:17	<a href="#">WG1437326</a>

## 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		0.000520	0.00130	1	02/28/2020 21:22	<a href="#">WG1435956</a>
Toluene	U		0.00162	0.00650	1	02/28/2020 21:22	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000689	0.00325	1	02/28/2020 21:22	<a href="#">WG1435956</a>
Total Xylenes	U		0.00621	0.00845	1	02/28/2020 21:22	<a href="#">WG1435956</a>
(S) Toluene-d8	109			75.0-131		02/28/2020 21:22	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	100			67.0-138		02/28/2020 21:22	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	91.8			70.0-130		02/28/2020 21:22	<a href="#">WG1435956</a>

## 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	2.65	J	2.09	5.20	1	03/06/2020 04:28	<a href="#">WG1438752</a>
C28-C40 Oil Range	4.42	J	0.356	5.20	1	03/06/2020 04:28	<a href="#">WG1438752</a>
(S) o-Terphenyl	56.2			18.0-148		03/06/2020 04:28	<a href="#">WG1438752</a>

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



Collected date/time: 02/25/20 13:10

L1193661

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	03/02/2020 14:27	<a href="#">WG1435871</a>

## 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	13.0	<u>B</u>	0.985	12.4	1	03/04/2020 14:13	<a href="#">WG1436108</a>

## 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	0.0802	<u>B J</u>	0.0269	0.124	1	03/03/2020 17:02	<a href="#">WG1437251</a>
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		03/03/2020 17:02	<a href="#">WG1437251</a>

## 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		0.000496	0.00124	1	02/28/2020 21:42	<a href="#">WG1435956</a>
Toluene	U		0.00155	0.00620	1	02/28/2020 21:42	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000657	0.00310	1	02/28/2020 21:42	<a href="#">WG1435956</a>
Total Xylenes	U		0.00593	0.00806	1	02/28/2020 21:42	<a href="#">WG1435956</a>
(S) Toluene-d8	114			75.0-131		02/28/2020 21:42	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	104			67.0-138		02/28/2020 21:42	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	99.3			70.0-130		02/28/2020 21:42	<a href="#">WG1435956</a>

## 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	U		2.00	4.96	1	03/04/2020 18:30	<a href="#">WG1436869</a>
C28-C40 Oil Range	3.17	<u>J</u>	0.340	4.96	1	03/04/2020 18:30	<a href="#">WG1436869</a>
(S) o-Terphenyl	58.0			18.0-148		03/04/2020 18:30	<a href="#">WG1436869</a>



Collected date/time: 02/25/20 13:20

L1193661

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.8		1	03/02/2020 14:27	<a href="#">WG1435871</a>

## 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	81.8		0.984	12.4	1	03/04/2020 14:22	<a href="#">WG1436108</a>

## 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	0.0651	<a href="#">B J</a>	0.0269	0.124	1	03/03/2020 17:25	<a href="#">WG1437251</a>
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120		03/03/2020 17:25	<a href="#">WG1437251</a>

## 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		0.000495	0.00124	1	02/28/2020 22:02	<a href="#">WG1435956</a>
Toluene	U		0.00155	0.00619	1	02/28/2020 22:02	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000656	0.00309	1	02/28/2020 22:02	<a href="#">WG1435956</a>
Total Xylenes	U		0.00592	0.00804	1	02/28/2020 22:02	<a href="#">WG1435956</a>
(S) Toluene-d8	114			75.0-131		02/28/2020 22:02	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	98.2			67.0-138		02/28/2020 22:02	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	94.3			70.0-130		02/28/2020 22:02	<a href="#">WG1435956</a>

## 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	2.26	<a href="#">J</a>	1.99	4.95	1	03/04/2020 18:43	<a href="#">WG1436869</a>
C28-C40 Oil Range	1.97	<a href="#">J</a>	0.339	4.95	1	03/04/2020 18:43	<a href="#">WG1436869</a>
(S) o-Terphenyl	42.3			18.0-148		03/04/2020 18:43	<a href="#">WG1436869</a>



Collected date/time: 02/25/20 14:00

L1193661

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.0		1	03/02/2020 14:27	<a href="#">WG1435871</a>

## 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	5.84	<a href="#">B J</a>	0.935	11.8	1	03/04/2020 14:32	<a href="#">WG1436108</a>

## 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	0.0631	<a href="#">B J</a>	0.0255	0.118	1	03/03/2020 17:47	<a href="#">WG1437251</a>
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		03/03/2020 17:47	<a href="#">WG1437251</a>

## 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		0.000471	0.00118	1	02/28/2020 22:22	<a href="#">WG1435956</a>
Toluene	U		0.00147	0.00588	1	02/28/2020 22:22	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000623	0.00294	1	02/28/2020 22:22	<a href="#">WG1435956</a>
Total Xylenes	U		0.00562	0.00765	1	02/28/2020 22:22	<a href="#">WG1435956</a>
(S) Toluene-d8	111			75.0-131		02/28/2020 22:22	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	96.2			67.0-138		02/28/2020 22:22	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	96.2			70.0-130		02/28/2020 22:22	<a href="#">WG1435956</a>

## 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	2.31	<a href="#">J</a>	1.89	4.71	1	03/04/2020 17:39	<a href="#">WG1436869</a>
C28-C40 Oil Range	3.73	<a href="#">J</a>	0.322	4.71	1	03/04/2020 17:39	<a href="#">WG1436869</a>
(S) o-Terphenyl	62.9			18.0-148		03/04/2020 17:39	<a href="#">WG1436869</a>



Collected date/time: 02/25/20 14:10

L1193661

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.3		1	02/29/2020 23:58	<a href="#">WG1435873</a>

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	12.2	<a href="#">B J</a>	0.989	12.4	1	03/04/2020 14:41	<a href="#">WG1436108</a>

## 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	0.468		0.0270	0.124	1	03/05/2020 15:22	<a href="#">WG1438732</a>
(S) a,a,a-Trifluorotoluene(FID)	80.5			77.0-120		03/05/2020 15:22	<a href="#">WG1438732</a>

## Sample Narrative:

L1193661-13 WG1438732: Previous run also had low IS recovery. Matrix effect.

## 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		0.000498	0.00124	1	02/28/2020 22:43	<a href="#">WG1435956</a>
Toluene	U		0.00156	0.00622	1	02/28/2020 22:43	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000660	0.00311	1	02/28/2020 22:43	<a href="#">WG1435956</a>
Total Xylenes	U		0.00595	0.00809	1	02/28/2020 22:43	<a href="#">WG1435956</a>
(S) Toluene-d8	111			75.0-131		02/28/2020 22:43	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	93.8			67.0-138		02/28/2020 22:43	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	89.7			70.0-130		02/28/2020 22:43	<a href="#">WG1435956</a>

## 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		2.00	4.98	1	03/04/2020 17:52	<a href="#">WG1436869</a>
C28-C40 Oil Range	0.789	<a href="#">J</a>	0.341	4.98	1	03/04/2020 17:52	<a href="#">WG1436869</a>
(S) o-Terphenyl	39.8			18.0-148		03/04/2020 17:52	<a href="#">WG1436869</a>



Collected date/time: 02/25/20 14:20

L1193661

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.6		1	02/29/2020 23:58	<a href="#">WG1435873</a>

## 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	43.1		0.908	11.4	1	03/04/2020 15:00	<a href="#">WG1436108</a>

## 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		0.0248	0.114	1	03/03/2020 02:00	<a href="#">WG1437041</a>
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120		03/03/2020 02:00	<a href="#">WG1437041</a>

## 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		0.000457	0.00114	1	02/28/2020 23:03	<a href="#">WG1435956</a>
Toluene	U		0.00143	0.00571	1	02/28/2020 23:03	<a href="#">WG1435956</a>
Ethylbenzene	U		0.000605	0.00285	1	02/28/2020 23:03	<a href="#">WG1435956</a>
Total Xylenes	U		0.00546	0.00742	1	02/28/2020 23:03	<a href="#">WG1435956</a>
(S) Toluene-d8	114			75.0-131		02/28/2020 23:03	<a href="#">WG1435956</a>
(S) 4-Bromofluorobenzene	100			67.0-138		02/28/2020 23:03	<a href="#">WG1435956</a>
(S) 1,2-Dichloroethane-d4	94.8			70.0-130		02/28/2020 23:03	<a href="#">WG1435956</a>

## 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	U		1.84	4.57	1	03/04/2020 18:04	<a href="#">WG1436869</a>
C28-C40 Oil Range	0.717	J	0.313	4.57	1	03/04/2020 18:04	<a href="#">WG1436869</a>
(S) o-Terphenyl	37.1			18.0-148		03/04/2020 18:04	<a href="#">WG1436869</a>



Total Solids by Method 2540 G-2011 [L1193661-01,02](#)

Method Blank (MB)

(MB) R3504748-1 03/02/20 14:38

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

L1193661-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1193661-01 03/02/20 14:38 • (DUP) R3504748-3 03/02/20 14:38

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits
Total Solids	87.8	90.6	1	3.14		10

Laboratory Control Sample (LCS)

(LCS) R3504748-2 03/02/20 14:38

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
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 [L1193661-03,04,05,06,07,08,09,10,11,12](#)

Method Blank (MB)

(MB) R3504740-1 03/02/20 14:27

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

L1193661-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1193661-10 03/02/20 14:27 • (DUP) R3504740-3 03/02/20 14:27

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	80.7	80.6	1	0.113		10

Laboratory Control Sample (LCS)

(LCS) R3504740-2 03/02/20 14:27

	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 [L1193661-13,14](#)

Method Blank (MB)

(MB) R3504448-1 02/29/20 23:58

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00800			

L1193715-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1193715-04 02/29/20 23:58 • (DUP) R3504448-3 02/29/20 23:58

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	79.1	79.8	1	0.895		10

Laboratory Control Sample (LCS)

(LCS) R3504448-2 02/29/20 23:58

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	99.9	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Wet Chemistry by Method 300.0

[L1193661-01,02,03,04,05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3505422-1 03/04/20 11:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	3.07	<div></div>	0.795	10.0

L1193661-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1193661-06 03/04/20 13:06 • (DUP) R3505422-3 03/04/20 13:16

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	73.9	76.9	1	4.02		20

L1193661-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1193661-13 03/04/20 14:41 • (DUP) R3505422-4 03/04/20 14:51

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	12.2	13.7	1	11.3		20

Laboratory Control Sample (LCS)

(LCS) R3505422-2 03/04/20 11:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	193	96.7	90.0-110	

L1193765-36 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1193765-36 03/04/20 17:55 • (MS) R3505422-7 03/04/20 18:04 • (MSD) R3505422-8 03/04/20 18:14

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	5950	4880	5160	0.000	0.000	1	80.0-120	<div></div>	<div></div>	5.47	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



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

L1193661-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3504923-2 03/02/20 23:25

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)	98.0			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3504923-1 03/02/20 22:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.78	105	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			108	77.0-120	

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc



Volatile Organic Compounds (GC) by Method 8015D/GRO [L1193661-14](#)

Method Blank (MB)

(MB) R3505709-2 03/03/20 00:59

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)	98.2			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3505709-1 03/03/20 00:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.17	94.0	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

L1193718-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1193718-08 03/03/20 04:45 • (MS) R3505709-3 03/03/20 08:48 • (MSD) R3505709-4 03/03/20 09:08

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	30.3	ND	26.3	27.1	86.8	89.4	25	10.0-151			3.00	28
(S) a,a,a-Trifluorotoluene(FID)					111	112		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

[L1193661-10,11,12](#)

Method Blank (MB)

(MB) R3505734-3 03/03/20 16:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0520	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120

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

(LCS) R3505734-1 03/03/20 15:09 • (LCSD) R3505734-2 03/03/20 15:31

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	5.73	5.61	104	102	72.0-127			2.12	20
(S) a,a,a-Trifluorotoluene(FID)				109	107	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

[L1193661-09](#)

Method Blank (MB)

(MB) R3505252-2 03/03/20 14:07

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)	98.8			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3505252-1 03/03/20 13:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.91	107	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			108	77.0-120	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



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

[L1193661-13](#)

Method Blank (MB)

(MB) R3505930-3 03/05/20 12:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0242	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.2			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3505930-2 03/05/20 11:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.24	95.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

[L1193661-01,02,03,04,05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3505598-1 02/28/20 17:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	112			75.0-131
(S) 4-Bromofluorobenzene	98.6			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3505598-2 02/28/20 23:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00422	84.4	70.0-123	
Ethylbenzene	0.00500	0.00415	83.0	74.0-126	
Toluene	0.00500	0.00406	81.2	75.0-121	
Xylenes, Total	0.0150	0.0119	79.3	72.0-127	
(S) Toluene-d8			109	75.0-131	
(S) 4-Bromofluorobenzene			103	67.0-138	
(S) 1,2-Dichloroethane-d4			109	70.0-130	



Semi-Volatile Organic Compounds (GC) by Method 8015 L1193661-01,02

Method Blank (MB)

(MB) R3504697-1 03/02/20 18:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	2.85	J	1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	75.1			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3504697-2 03/02/20 18:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	41.2	82.4	50.0-150	
(S) o-Terphenyl			88.1	18.0-148	

L1193548-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1193548-03 03/02/20 20:13 • (MS) R3504697-3 03/02/20 20:26 • (MSD) R3504697-4 03/02/20 20:39

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	743	1450	1820	1570	49.8	15.8	14.9	50.0-150	J6	J6	14.7	20
(S) o-Terphenyl					89.1	84.1		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Semi-Volatile Organic Compounds (GC) by Method 8015

L1193661-03,04,05,06,07,08,10,11,12,13,14

Method Blank (MB)

(MB) R3505452-1 03/04/20 17:01

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	U		0.274	4.00
(S) o-Terphenyl	53.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3505452-2 03/04/20 17:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	33.9	67.8	50.0-150	
(S) o-Terphenyl			65.9	18.0-148	

L1193661-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1193661-06 03/04/20 20:12 • (MS) R3505452-3 03/04/20 20:25 • (MSD) R3505452-4 03/04/20 20:38

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	50.9	4.74	43.5	41.9	76.1	72.9	1	50.0-150			3.82	20
(S) o-Terphenyl					60.5	58.0		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Semi-Volatile Organic Compounds (GC) by Method 8015 L1193661-09

Method Blank (MB)

(MB) R3506000-1 03/06/20 04:03

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	U		0.274	4.00
(S) o-Terphenyl	65.8			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3506000-2 03/06/20 04:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.7	69.4	50.0-150	
(S) o-Terphenyl			69.8	18.0-148	

L1193661-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1193661-09 03/06/20 04:28 • (MS) R3506000-3 03/06/20 04:41 • (MSD) R3506000-4 03/06/20 04:53

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	65.0	2.65	51.1	50.4	74.5	73.5	1	50.0-150			1.28	20
(S) o-Terphenyl					69.1	65.3		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.

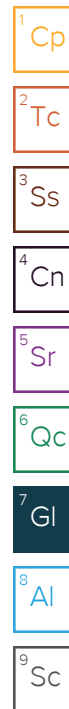
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. 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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.





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 <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1 6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	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

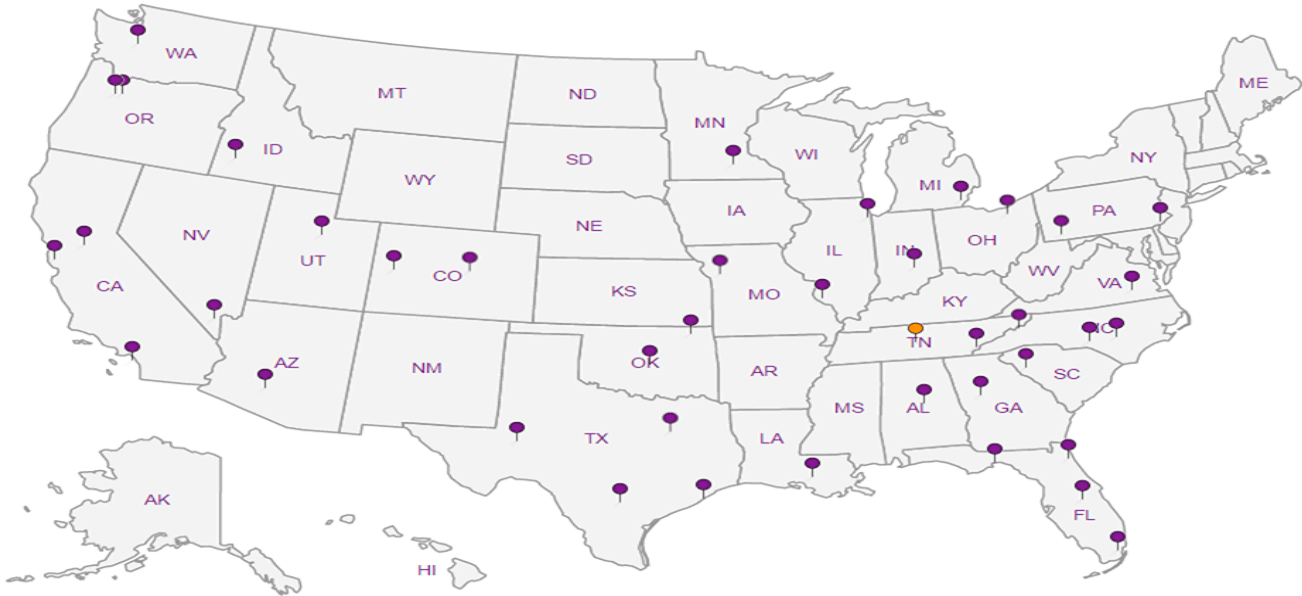
Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water   <sup>2</sup> Underground Storage Tanks   <sup>3</sup> Aquatic Toxicity   <sup>4</sup> Chemical/Microbiological   <sup>5</sup> Mold   <sup>6</sup> 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.







## Tetra Tech, Inc.

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

1212

Client Name: Conoco Phillips Site Manager: Christian Llull

Project Name: COP Elvis Tank Battery Contact Info: Email: christian.llull@tetratech.com  
Phone: (512) 338-1667

Project Location: Lea County, New Mexico Project #: 212C-MD-02060

Invoice to: Accounts Payable  
901 West Wall Street, Suite 100 Midland, Texas 79701

Receiving Laboratory: Pace Analytical Sampler Signature: *Joe Lull*

Comments: COPTETRA Acctnum

ANALYSIS REQUEST  
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DI)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD	
		YEAR: 2020		WATER	SOIL	HCL	HNO3	ICE	NONE																								
		DATE	TIME																														
-01	BH-2 (0'-1')	2/25/2020	1100		X			X		1	N	X	X														X						
-02	BH-2 (2'-3')	2/25/2020	1110		X			X		1	N	X	X														X						
-03	BH-2 (4'-5')	2/25/2020	1120		X			X		1	N	X	X														X						
-04	BH-2 (6'-7')	2/25/2020	1130		X			X		1	N	X	X														X						
-05	BH-3 (0'-1')	2/25/2020	1150		X			X		1	N	X	X														X						
-06	BH-3 (2'-3')	2/25/2020	1200		X			X		1	N	X	X														X						
-07	BH-3 (4'-5')	2/25/2020	1210		X			X		1	N	X	X														X						
-08	BH-3 (6'-7')	2/25/2020	1220		X			X		1	N	X	X														X						
-09	AH-6 (0'-1')	2/25/2020	1300		X			X		1	N	X	X														X						
-10	AH-6 (2'-3')	2/25/2020	1310		X			X		1	N	X	X														X						

Relinquished by: *Joe Lull* Date: 2-26-20 Time: 14:00 Received by: *Joe Lull* Date: 2-26-20 Time: 14:00

Relinquished by: *Joe Lull* Date: 2-26-20 Time: 10:00 Received by: *Joe Lull* Date: 2-26-20 Time: 10:00

Relinquished by: *Joe Lull* Date: 2-26-20 Time: 09:30 Received by: *Joe Lull* Date: 2-26-20 Time: 09:30

## 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 #: \_\_\_\_\_

.510 = 5.11 mR/hr

RAD SCREEN: &lt;0.5 mR/hr





**Tetra Tech, Inc.**

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

<b>Client Name:</b>	Conoco Phillips	<b>Site Manager:</b>	Christian Llull
<b>Project Name:</b>	COP Elvis Tank Battery	<b>Contact Info:</b>	Email: christian.llull@tetrattech.com Phone: (512) 338-1667
<b>Project Location:</b> (county, state)	Lea County, New Mexico	<b>Project #:</b>	212C-MD-02060
<b>Invoice to:</b>	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
<b>Receiving Laboratory:</b>	Pace Analytical	<b>Sampler Signature:</b>	<i>[Signature]</i>
<b>Comments:</b>	COPTETRA Acctnum		

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8021C	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRG)	PAH 8270C	Total Metals Ag As Ba Cd	TCLP Metals Ag As Ba Cd	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate	TDS	General Water Chemistry	Anion/Cation Balance	TPH 8015R	HOLD
		YEAR: 2020		WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	NONE																								
		DATE	TIME																														
11	AH-6 (4'-5')	2/25/2020	1320		X			X		1	N	X	X														X						
12	AH-7 (0'-1')	2/25/2020	1400		X			X		1	N	X	X														X						
13	AH-7 (2'-3')	2/25/2020	1410		X			X		1	N	X	X														X						
14	AH-7 (4'-5')	2/25/2020	1420		X			X		1	N	X	X														X						

Relinquished by: <i>[Signature]</i>	Date: 2-26-20	Time: 14:00	Received by: <i>[Signature]</i>	Date: 2-26-20	Time: 14:00
Relinquished by: <i>[Signature]</i>	Date: 2-26-20	Time: 16:00	Received by: <i>[Signature]</i>	Date: 2-26-20	Time: 16:00
Relinquished by: <i>[Signature]</i>	Date: 2-27-20	Time: 08:30	Received by: <i>[Signature]</i>	Date: 2-27-20	Time: 08:30

**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


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(Circle) HAND DELIVERED FEDEX UPS Tracking #: \_\_\_\_\_

510-344-AL

RAD SCREEN: <0.5 mR/hr



Pace Analytical National Center for Testing & Innovation Cooler Receipt Form			
Client:		61193661	
Cooler Received/Opened On: 2 / 27 / 20		Temperature:	.5
Received By: Tanner Windham			
Signature: 			
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	<input checked="" type="checkbox"/>		
COC Signed / Accurate?		<input checked="" type="checkbox"/>	
Bottles arrive intact?		<input checked="" type="checkbox"/>	
Correct bottles used?		<input checked="" type="checkbox"/>	
Sufficient volume sent?		<input checked="" type="checkbox"/>	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			





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

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March 17, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: COP - ELVIS TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/11/22 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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](http://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  
 CHRISTIAN LLULL  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	03/11/2022	Sampling Date:	03/11/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	COP - ELVIS TANK BATTERY	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02060	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 1 ( 0-1' ) (H220995-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2022	ND	1.98	98.8	2.00	3.86	
<b>Toluene*</b>	<b>0.149</b>	0.050	03/15/2022	ND	2.07	103	2.00	2.58	
<b>Ethylbenzene*</b>	<b>0.153</b>	0.050	03/15/2022	ND	1.98	99.2	2.00	1.45	
<b>Total Xylenes*</b>	<b>0.252</b>	0.150	03/15/2022	ND	6.13	102	6.00	0.714	
<b>Total BTEX</b>	<b>0.554</b>	0.300	03/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	03/15/2022	ND	400	100	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*	<50.0	50.0	03/16/2022	ND	203	102	200	7.73	
<b>DRO &gt;C10-C28*</b>	<b>1720</b>	50.0	03/16/2022	ND	194	97.0	200	6.56	
<b>EXT DRO &gt;C28-C36</b>	<b>513</b>	50.0	03/16/2022	ND					

Surrogate: 1-Chlorooctane 71.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 122 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	03/11/2022	Sampling Date:	03/11/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	COP - ELVIS TANK BATTERY	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02060	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 1 ( 2-3' ) (H220995-02)**

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	03/16/2022	ND	1.98	98.8	2.00	3.86		
Toluene*	<0.050	0.050	03/16/2022	ND	2.07	103	2.00	2.58		
Ethylbenzene*	<0.050	0.050	03/16/2022	ND	1.98	99.2	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/16/2022	ND	6.13	102	6.00	0.714		
Total BTEx	<0.300	0.300	03/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/15/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2022	ND	203	102	200	7.73	
DRO >C10-C28*	10.5	10.0	03/16/2022	ND	194	97.0	200	6.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.6 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	03/11/2022	Sampling Date:	03/11/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	COP - ELVIS TANK BATTERY	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02060	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 1 ( 4-5' ) (H220995-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2022	ND	1.98	98.8	2.00	3.86		
Toluene*	<0.050	0.050	03/15/2022	ND	2.07	103	2.00	2.58		
Ethylbenzene*	<0.050	0.050	03/15/2022	ND	1.98	99.2	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/15/2022	ND	6.13	102	6.00	0.714		
Total BTEX	<0.300	0.300	03/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

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	03/15/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/16/2022	ND	203	102	200	7.73		
DRO >C10-C28*	10.5	10.0	03/16/2022	ND	194	97.0	200	6.56		
EXT DRO >C28-C36	<10.0	10.0	03/16/2022	ND						

Surrogate: 1-Chlorooctane 91.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	03/11/2022	Sampling Date:	03/11/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	COP - ELVIS TANK BATTERY	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02060	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 1 ( 5-6' ) (H220995-04)**

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	03/15/2022	ND	1.98	98.8	2.00	3.86		
Toluene*	<0.050	0.050	03/15/2022	ND	2.07	103	2.00	2.58		
Ethylbenzene*	<0.050	0.050	03/15/2022	ND	1.98	99.2	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/15/2022	ND	6.13	102	6.00	0.714		
Total BTX	<0.300	0.300	03/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/15/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2022	ND	203	102	200	7.73	
DRO >C10-C28*	<10.0	10.0	03/16/2022	ND	194	97.0	200	6.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2022	ND					

Surrogate: 1-Chlorooctane 78.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	03/11/2022	Sampling Date:	03/11/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	COP - ELVIS TANK BATTERY	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02060	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 1 ( 8-9' ) (H220995-05)**

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	03/16/2022	ND	1.98	98.8	2.00	3.86		
Toluene*	<0.050	0.050	03/16/2022	ND	2.07	103	2.00	2.58		
Ethylbenzene*	<0.050	0.050	03/16/2022	ND	1.98	99.2	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/16/2022	ND	6.13	102	6.00	0.714		
Total BTEX	<0.300	0.300	03/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7520	16.0	03/15/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2022	ND	203	102	200	7.73	
DRO >C10-C28*	11.0	10.0	03/16/2022	ND	194	97.0	200	6.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	03/11/2022	Sampling Date:	03/11/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	COP - ELVIS TANK BATTERY	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02060	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 1 ( 9-10' ) (H220995-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/15/2022	ND	1.98	98.8	2.00	3.86		
Toluene*	<0.050	0.050	03/15/2022	ND	2.07	103	2.00	2.58		
Ethylbenzene*	<0.050	0.050	03/15/2022	ND	1.98	99.2	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/15/2022	ND	6.13	102	6.00	0.714		
Total BTEX	<0.300	0.300	03/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12000	16.0	03/15/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2022	ND	203	102	200	7.73	
DRO >C10-C28*	<10.0	10.0	03/16/2022	ND	194	97.0	200	6.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.4 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	03/11/2022	Sampling Date:	03/11/2022
Reported:	03/17/2022	Sampling Type:	Soil
Project Name:	COP - ELVIS TANK BATTERY	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02060	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

**Sample ID: AH - 22 - 1 ( 11-12' ) (H220995-07)**

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	03/15/2022	ND	1.98	98.8	2.00	3.86		
Toluene*	<0.050	0.050	03/15/2022	ND	2.07	103	2.00	2.58		
Ethylbenzene*	<0.050	0.050	03/15/2022	ND	1.98	99.2	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/15/2022	ND	6.13	102	6.00	0.714		
Total BTEX	<0.300	0.300	03/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7330	16.0	03/15/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2022	ND	203	102	200	7.73	
DRO >C10-C28*	11.9	10.0	03/16/2022	ND	194	97.0	200	6.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.1 % 59.5-142

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\*=Accredited Analyte

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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





## BILL TO

## ANALYSIS REQUEST

FOIA-006 R.5.2 10/07/21





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

July 18, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ELVIS TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/16/24 15:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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](http://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:	07/16/2024	Sampling Date:	07/16/2024
Reported:	07/18/2024	Sampling Type:	Soil
Project Name:	ELVIS TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY, NM		

**Sample ID: BH 5 (1.5') (H244247-01)**

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	1.97	98.7	2.00	6.59	
Toluene*	<0.050	0.050	07/17/2024	ND	2.12	106	2.00	7.79	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	108	2.00	8.32	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.75	112	6.00	7.49	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	192	16.0	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 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: 07/16/2024  
 Reported: 07/18/2024  
 Project Name: ELVIS TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 07/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 13 (6") (H244247-02)**

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	07/17/2024	ND	1.97	98.7	2.00	6.59		
Toluene*	<0.050	0.050	07/17/2024	ND	2.12	106	2.00	7.79		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	108	2.00	8.32		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.75	112	6.00	7.49		
Total BTEX	<0.300	0.300	07/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 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: 07/16/2024  
 Reported: 07/18/2024  
 Project Name: ELVIS TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 07/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 14 (6") (H244247-03)**

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	07/17/2024	ND	1.97	98.7	2.00	6.59		
Toluene*	<0.050	0.050	07/17/2024	ND	2.12	106	2.00	7.79		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	108	2.00	8.32		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.75	112	6.00	7.49		
Total BTEX	<0.300	0.300	07/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 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: 07/16/2024  
 Reported: 07/18/2024  
 Project Name: ELVIS TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 07/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 15 (6") (H244247-04)**

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	07/17/2024	ND	1.97	98.7	2.00	6.59		
Toluene*	<0.050	0.050	07/17/2024	ND	2.12	106	2.00	7.79		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	108	2.00	8.32		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.75	112	6.00	7.49		
Total BTEX	<0.300	0.300	07/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 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: 07/16/2024  
 Reported: 07/18/2024  
 Project Name: ELVIS TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 07/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 16 (6") (H244247-05)**

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	07/17/2024	ND	1.97	98.7	2.00	6.59		
Toluene*	<0.050	0.050	07/17/2024	ND	2.12	106	2.00	7.79		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	108	2.00	8.32		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.75	112	6.00	7.49		
Total BTEx	<0.300	0.300	07/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 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: 07/16/2024  
 Reported: 07/18/2024  
 Project Name: ELVIS TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 07/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 17 (6") (H244247-06)**

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	07/17/2024	ND	1.97	98.7	2.00	6.59		
Toluene*	<0.050	0.050	07/17/2024	ND	2.12	106	2.00	7.79		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	108	2.00	8.32		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.75	112	6.00	7.49		
Total BTEX	<0.300	0.300	07/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 49.1-148

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\*=Accredited Analyte

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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: 07/16/2024  
 Reported: 07/18/2024  
 Project Name: ELVIS TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 07/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 18 (6") (H244247-07)**

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	07/17/2024	ND	1.97	98.7	2.00	6.59		
Toluene*	<0.050	0.050	07/17/2024	ND	2.12	106	2.00	7.79		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	108	2.00	8.32		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.75	112	6.00	7.49		
Total BTEX	<0.300	0.300	07/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 07/16/2024  
 Reported: 07/18/2024  
 Project Name: ELVIS TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 07/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 19 (1.5') (H244247-08)**

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	07/17/2024	ND	1.97	98.7	2.00	6.59		
Toluene*	<0.050	0.050	07/17/2024	ND	2.12	106	2.00	7.79		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	108	2.00	8.32		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.75	112	6.00	7.49		
Total BTEX	<0.300	0.300	07/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 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: 07/16/2024  
 Reported: 07/18/2024  
 Project Name: ELVIS TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 07/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 20 (1.5') (H244247-09)**

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	07/17/2024	ND	1.97	98.7	2.00	6.59		
Toluene*	<0.050	0.050	07/17/2024	ND	2.12	106	2.00	7.79		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	108	2.00	8.32		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.75	112	6.00	7.49		
Total BTEx	<0.300	0.300	07/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 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: 07/16/2024  
 Reported: 07/18/2024  
 Project Name: ELVIS TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 07/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 21 (1.5') (H244247-10)**

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	07/17/2024	ND	1.97	98.7	2.00	6.59	
Toluene*	<0.050	0.050	07/17/2024	ND	2.12	106	2.00	7.79	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	108	2.00	8.32	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.75	112	6.00	7.49	
Total BTX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 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: 07/16/2024  
 Reported: 07/18/2024  
 Project Name: ELVIS TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 07/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 22 (1.5') (H244247-11)**

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	07/17/2024	ND	2.03	102	2.00	2.81	
Toluene*	<0.050	0.050	07/17/2024	ND	2.06	103	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	109	2.00	2.73	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.49	108	6.00	2.92	
Total BTEX	<0.300	0.300	07/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	320	16.0	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 07/16/2024  
 Reported: 07/18/2024  
 Project Name: ELVIS TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 07/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 1 (H244247-12)**

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	07/17/2024	ND	2.03	102	2.00	2.81		
Toluene*	<0.050	0.050	07/17/2024	ND	2.06	103	2.00	1.64		
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	109	2.00	2.73		
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.49	108	6.00	2.92		
Total BTEX	<0.300	0.300	07/17/2024	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	704	16.0	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	16.1	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 69.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.9 % 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: 07/16/2024  
 Reported: 07/18/2024  
 Project Name: ELVIS TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 07/16/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SP 2 (H244247-13)**

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	07/17/2024	ND	2.03	102	2.00	2.81	
Toluene*	<0.050	0.050	07/17/2024	ND	2.06	103	2.00	1.64	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	2.17	109	2.00	2.73	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	6.49	108	6.00	2.92	
Total BTEx	<0.300	0.300	07/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	07/17/2024	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	07/17/2024	ND	180	89.9	200	8.63	
DRO >C10-C28*	<10.0	10.0	07/17/2024	ND	160	80.2	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 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: <b>Tetateh</b>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <b>Chuc Tehe</b>		Company: <b>Maveride</b>					
Address:		Attn: <b>Bye W</b>					
City:		Address:					
Phone #:		City:					
Fax #:		State:					
Project #:		Zip:					
Project Name: <b>Elvis Tank Battery</b>		Phone #:					
Project Location: <b>Lea Co. NM</b>		Fax #:					
Sampler Name: <b>Adrian G</b>							

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS
H244247	BH 5 (1.5')		1	GROUNDWATER			7/16		BTEX
	BH 13 (6")			WASTEWATER					TPH
	BH 14 (6")			SOIL					Chloride
	BH 15 (6")			OIL					
	BH 16 (6")			SLUDGE					
	BH 17 (6")			OTHER:					
	BH 18 (6")			ACID/BASE:					
	BH 19 (1.5')			ICE / COOL					
	BH 20 (1.5')			OTHER:					
	BH 21 (1.5')								

Relinquished By: <b>Adrian G</b>	Date: <b>7/16</b>	Received By: <b>Adrian G</b>	Date: <b>7/16</b>
Time: <b>1500</b>	Time: <b>1501</b>	Time: <b>1501</b>	Time: <b>1501</b>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <b>8.8°C</b>	Corrected Temp. °C <b>8.8°C</b>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Turnaround Time: <b>Standard</b>	Thermometer ID #140	Correction Factor 0°C	Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
REMARKS: <b>Chris. Grab attached jorge. Fernandez e tetateh, an adrian garza e tetateh</b>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	Corrected Temp. °C

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





ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

---

July 19, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ELVIS BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/17/24 14:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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](http://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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/19/2024	Sampling Type:	Soil
Project Name:	ELVIS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03558	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 11 (6") (H244279-01)**

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	07/18/2024	ND	2.09	105	2.00	7.91	
Toluene*	<0.050	0.050	07/18/2024	ND	2.04	102	2.00	7.82	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.11	105	2.00	6.38	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	6.18	103	6.00	5.43	
Total BTX	<0.300	0.300	07/18/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	208	104	200	0.691	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	177	88.5	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/19/2024	Sampling Type:	Soil
Project Name:	ELVIS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03558	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 8 (6") (H244279-02)**

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	07/18/2024	ND	2.09	105	2.00	7.91		
Toluene*	<0.050	0.050	07/18/2024	ND	2.04	102	2.00	7.82		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.11	105	2.00	6.38		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	6.18	103	6.00	5.43		
Total BTEx	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	208	104	200	0.691	
DRO >C10-C28*	291	10.0	07/18/2024	ND	177	88.5	200	3.15	
EXT DRO >C28-C36	95.1	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/19/2024	Sampling Type:	Soil
Project Name:	ELVIS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03558	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 4 (6") (H244279-03)**

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	07/18/2024	ND	2.09	105	2.00	7.91		
Toluene*	<0.050	0.050	07/18/2024	ND	2.04	102	2.00	7.82		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.11	105	2.00	6.38		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	6.18	103	6.00	5.43		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	208	104	200	0.691	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	177	88.5	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/19/2024	Sampling Type:	Soil
Project Name:	ELVIS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03558	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 2 (6") (H244279-04)**

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	07/18/2024	ND	2.09	105	2.00	7.91		
Toluene*	<0.050	0.050	07/18/2024	ND	2.04	102	2.00	7.82		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.11	105	2.00	6.38		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	6.18	103	6.00	5.43		
Total BTEX	<0.300	0.300	07/18/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	208	104	200	0.691	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	177	88.5	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 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: 07/17/2024  
 Reported: 07/19/2024  
 Project Name: ELVIS BATTERY  
 Project Number: 212C-MD-03558  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 07/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 7 (H244279-05)**

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	07/18/2024	ND	2.09	105	2.00	7.91	
Toluene*	<0.050	0.050	07/18/2024	ND	2.04	102	2.00	7.82	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.11	105	2.00	6.38	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	6.18	103	6.00	5.43	
Total BTEX	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	208	104	200	0.691	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	177	88.5	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/19/2024	Sampling Type:	Soil
Project Name:	ELVIS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03558	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 6 (H244279-06)**

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	07/18/2024	ND	2.09	105	2.00	7.91		
Toluene*	<0.050	0.050	07/18/2024	ND	2.04	102	2.00	7.82		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.11	105	2.00	6.38		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	6.18	103	6.00	5.43		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	208	104	200	0.691	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	177	88.5	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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:	07/17/2024	Sampling Date:	07/17/2024
Reported:	07/19/2024	Sampling Type:	Soil
Project Name:	ELVIS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03558	Sample Received By:	Alyssa Parras
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: SW - 1 (H244279-07)**

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	07/18/2024	ND	2.09	105	2.00	7.91		
Toluene*	<0.050	0.050	07/18/2024	ND	2.04	102	2.00	7.82		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.11	105	2.00	6.38		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	6.18	103	6.00	5.43		
Total BTEx	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	208	104	200	0.691	
DRO >C10-C28*	11.7	10.0	07/18/2024	ND	177	88.5	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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: 07/17/2024  
 Reported: 07/19/2024  
 Project Name: ELVIS BATTERY  
 Project Number: 212C-MD-03558  
 Project Location: MAVERICK - LEA COUNTY, NM

Sampling Date: 07/17/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW - 2 (H244279-08)**

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	07/18/2024	ND	2.09	105	2.00	7.91		
Toluene*	<0.050	0.050	07/18/2024	ND	2.04	102	2.00	7.82		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.11	105	2.00	6.38		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	6.18	103	6.00	5.43		
Total BTEX	<0.300	0.300	07/18/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/18/2024	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	07/18/2024	ND	208	104	200	0.691	
DRO >C10-C28*	25.9	10.0	07/18/2024	ND	177	88.5	200	3.15	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

## Analysis Request of Chain of Custody Record

**Tetra Tech, Inc.**901 W Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Page 1 of 1

Client Name:

Maverick Natural Resources

Site Manager:

Chuck Terhune

Project Name:

Elvis Battery

281-755-8965

Project Location:

Lea County, NM

Project #:

[chuck.terhune@tetratech.com](mailto:chuck.terhune@tetratech.com)

Invoice to:

212C-MD-03558

Receiving Laboratory:

Attn: Chuck Terhune

Sampler Signature:

Jorge Fernandez

Comments:

Include : Chris Straub Chris.Straub@tetratech.com Jorge.Fernandez@tetratech.com

## SAMPLE IDENTIFICATION

LAB #  
H244779  
(LAB USE ONLY)

H244219		LAB #		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Surrendered by:

Date: Time: 1430

Surrendered by:

Date: Time: 1527-17-14

Surrendered by:

Date: Time:

Received by:

Date: Time: 7.17.24 1423

Received by:

Date: Time:

## LAB USE ONLY

Sample Temperature

4.1 C

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

REMARKS: Standard TAT

(Circle or Specify Method No.)

ANALYSIS REQUEST

Hold

Page 11 of 11

ORIGINAL COPY



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

---

July 19, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ELVIS BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/18/24 10:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at

[www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 8	H244305-01	Soil	17-Jul-24 00:00	18-Jul-24 10:48
SW - 9	H244305-02	Soil	17-Jul-24 00:00	18-Jul-24 10:48
SW - 10	H244305-03	Soil	17-Jul-24 00:00	18-Jul-24 10:48
BH - 1 (1.5')	H244305-04	Soil	17-Jul-24 00:00	18-Jul-24 10:48
BH - 3 (6")	H244305-05	Soil	17-Jul-24 00:00	18-Jul-24 10:48
BH - 6 (6")	H244305-06	Soil	17-Jul-24 00:00	18-Jul-24 10:48
BH - 7 (1.5')	H244305-07	Soil	17-Jul-24 00:00	18-Jul-24 10:48
BH - 9 (6")	H244305-08	Soil	17-Jul-24 00:00	18-Jul-24 10:48
BH - 10 (6")	H244305-09	Soil	17-Jul-24 00:00	18-Jul-24 10:48
BH - 12 (6")	H244305-10	Soil	17-Jul-24 00:00	18-Jul-24 10:48
SW - 3	H244305-11	Soil	17-Jul-24 00:00	18-Jul-24 10:48
SW - 4	H244305-12	Soil	17-Jul-24 00:00	18-Jul-24 10:48
SW - 5	H244305-13	Soil	17-Jul-24 00:00	18-Jul-24 10:48

07/19/24 - Client changed the sample ID on -10 (see COC). This is the revised report and will replace the one sent earlier on 07/19/24.

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**SW - 8****H244305-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		111 %		71.5-134	4071814	JH	18-Jul-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	

Surrogate: 1-Chlorooctane		110 %		48.2-134	4071822	MS	18-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane		122 %		49.1-148	4071822	MS	18-Jul-24	8015B	
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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  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**SW - 9****H244305-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	288		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		4071814	JH	18-Jul-24	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
Surrogate: 1-Chlorooctane			119 %	48.2-134		4071822	MS	18-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			135 %	49.1-148		4071822	MS	18-Jul-24	8015B	

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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  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**SW - 10**  
**H244305-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		4071814	JH	18-Jul-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			118 %	48.2-134		4071822	MS	18-Jul-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			131 %	49.1-148		4071822	MS	18-Jul-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**BH - 1 (1.5')**  
**H244305-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>384</b>		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		4071814	JH	18-Jul-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			130 %	48.2-134		4071822	MS	18-Jul-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			144 %	49.1-148		4071822	MS	18-Jul-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**BH - 3 (6")**  
**H244305-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %		71.5-134	4071814	JH	18-Jul-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			118 %		48.2-134	4071822	MS	18-Jul-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			131 %		49.1-148	4071822	MS	18-Jul-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**BH - 6 (6")**  
**H244305-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>320</b>		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		4071814	JH	18-Jul-24	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
Surrogate: 1-Chlorooctane			118 %	48.2-134		4071822	MS	18-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			132 %	49.1-148		4071822	MS	18-Jul-24	8015B	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**BH - 7 (1.5')**  
**H244305-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>192</b>		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %		71.5-134	4071814	JH	18-Jul-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			126 %		48.2-134	4071822	MS	18-Jul-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			141 %		49.1-148	4071822	MS	18-Jul-24	8015B	
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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  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**BH - 9 (6")**  
**H244305-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		4071814	JH	18-Jul-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	

Surrogate: 1-Chlorooctane			93.6 %	48.2-134		4071822	MS	18-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	49.1-148		4071822	MS	18-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**BH - 10 (6")**  
**H244305-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		4071814	JH	18-Jul-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			117 %	48.2-134		4071822	MS	18-Jul-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			131 %	49.1-148		4071822	MS	18-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**BH - 12 (6")**  
**H244305-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>288</b>		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		4071814	JH	18-Jul-24	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
Surrogate: 1-Chlorooctane			112 %	48.2-134		4071822	MS	18-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			126 %	49.1-148		4071822	MS	18-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**SW - 3****H244305-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>272</b>		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %		71.5-134	4071814	JH	18-Jul-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>25.3</b>		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			121 %		48.2-134	4071822	MS	18-Jul-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			136 %		49.1-148	4071822	MS	18-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**SW - 4****H244305-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %		71.5-134	4071814	JH	18-Jul-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
DRO >C10-C28*	<b>14.4</b>		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	

Surrogate: 1-Chlorooctane			118 %		48.2-134	4071822	MS	18-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane			132 %		49.1-148	4071822	MS	18-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**SW - 5****H244305-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	288		16.0	mg/kg	4	4071905	AC	19-Jul-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4071814	JH	18-Jul-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4071814	JH	18-Jul-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		4071814	JH	18-Jul-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071822	MS	18-Jul-24	8015B	

Surrogate: 1-Chlorooctane			111 %	48.2-134		4071822	MS	18-Jul-24	8015B	
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Surrogate: 1-Chlorooctadecane			123 %	49.1-148		4071822	MS	18-Jul-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4071905 - 1:4 DI Water</b>										
<b>Blank (4071905-BLK1)</b>				Prepared & Analyzed: 19-Jul-24						
Chloride	ND	16.0	mg/kg							
<b>LCS (4071905-BS1)</b>				Prepared & Analyzed: 19-Jul-24						
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (4071905-BSD1)</b>				Prepared & Analyzed: 19-Jul-24						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4071814 - Volatiles****Blank (4071814-BLK1)**

Prepared &amp; Analyzed: 18-Jul-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0554		mg/kg	0.0500		111	71.5-134			

**LCS (4071814-BS1)**

Prepared &amp; Analyzed: 18-Jul-24

Benzene	2.00	0.050	mg/kg	2.00		100	82.8-130			
Toluene	2.19	0.050	mg/kg	2.00		109	86-128			
Ethylbenzene	2.25	0.050	mg/kg	2.00		113	85.9-128			
m,p-Xylene	4.74	0.100	mg/kg	4.00		119	89-129			
o-Xylene	2.25	0.050	mg/kg	2.00		113	86.1-125			
Total Xylenes	7.00	0.150	mg/kg	6.00		117	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0531		mg/kg	0.0500		106	71.5-134			

**LCS Dup (4071814-BSD1)**

Prepared &amp; Analyzed: 18-Jul-24

Benzene	2.03	0.050	mg/kg	2.00		102	82.8-130	1.47	15.8	
Toluene	2.21	0.050	mg/kg	2.00		110	86-128	0.843	15.9	
Ethylbenzene	2.27	0.050	mg/kg	2.00		113	85.9-128	0.508	16	
m,p-Xylene	4.77	0.100	mg/kg	4.00		119	89-129	0.624	16.2	
o-Xylene	2.26	0.050	mg/kg	2.00		113	86.1-125	0.322	16.7	
Total Xylenes	7.03	0.150	mg/kg	6.00		117	88.2-128	0.527	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

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**Analytical Results For:**

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

Project: ELVIS BATTERY  
Project Number: 212C-MD-03558  
Project Manager: CHUCK TERHUNE  
Fax To: (432) 682-3946

Reported:  
19-Jul-24 15:14

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4071822 - General Prep - Organics****Blank (4071822-BLK1)**

Prepared &amp; Analyzed: 18-Jul-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	62.0		mg/kg	50.0		124	48.2-134			
Surrogate: 1-Chlorooctadecane	70.7		mg/kg	50.0		141	49.1-148			

**LCS (4071822-BS1)**

Prepared &amp; Analyzed: 18-Jul-24

GRO C6-C10	202	10.0	mg/kg	200		101	66.4-123			
DRO >C10-C28	198	10.0	mg/kg	200		98.9	66.5-118			
Total TPH C6-C28	400	10.0	mg/kg	400		99.9	77.6-123			
Surrogate: 1-Chlorooctane	64.5		mg/kg	50.0		129	48.2-134			
Surrogate: 1-Chlorooctadecane	69.5		mg/kg	50.0		139	49.1-148			

**LCS Dup (4071822-BS1)**

Prepared &amp; Analyzed: 18-Jul-24

GRO C6-C10	200	10.0	mg/kg	200		100	66.4-123	0.978	17.7	
DRO >C10-C28	199	10.0	mg/kg	200		99.3	66.5-118	0.367	21	
Total TPH C6-C28	399	10.0	mg/kg	400		99.6	77.6-123	0.310	18.5	
Surrogate: 1-Chlorooctane	62.9		mg/kg	50.0		126	48.2-134			
Surrogate: 1-Chlorooctadecane	68.8		mg/kg	50.0		138	49.1-148			

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**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



**Tetra Tech, Inc.**

[illegible]

Page 20 of 21





**Tetra Tech, Inc.**

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

Client Name:		Maverick Natural Resources	Site Manager:		Chuck Terhune					
Project Name:		Elvis Battery			281-755-8965					
Project Location:		Lea County, NM (county, state)	Project #:		212C-MD-03558					
Invoice to:		Attn: Chuck Terhune								
Receiving Laboratory:		Cardinal Labs	Sampler Signature:		Jorge Fernandez					
Comments: Include : Chris Straub Chris.Straub@tetratech.com Jorge.Fernandez@tetratech.com										
LAB # <b>H244305</b>  ( LAB USE ONLY )	SAMPLE IDENTIFICATION		SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	
			YEAR: 2023						TPH TX1005 (Ext to C35)	
			DATE	TIME	WATER	SOIL	HCL	HNO3	ICE	TPH 8015M ( GRO - DRO - ORO - MRO)
	4 BH-1 (1.5')		7/17/2024		X			X		PAH 8270C
	5 BH-3 (6")		7/17/2024		X			X		Total Metals Ag As Ba Cd Cr Pb Se Hg
	6 BH-6 (6")		7/17/2024		X			X		TCLP Metals Ag As Ba Cd Cr Pb Se Hg
	7 BH-7 (1.5')		7/17/2024		X			X		TCLP Volatiles
	8 BH-9 (6")		7/17/2024		X			X		TCLP Semi Volatiles
	9 BH-10 (6")		7/17/2024		X			X		RCI
	10 BH-12 (42'') (16") *SL-7-A-24		7/17/2024		X			X		GC/MS Vol. 8260B / 624
	11 SW-3		7/17/2024		X			X		GC/MS Semi. Vol. 8270C/625
	12 SW-4		7/17/2024		X			X		PCB's 8082 / 608
	13 SW-5		7/17/2024		X			X		NORM
										PLM (Asbestos)
Relinquished by:		Date:	Time:	Received by:	Date:	Time:	REMARKS: Standard TAT			
Relinquished by:		Date:	Time:	Received by:	Date:	Time:	LAB USE ONLY			
Relinquished by:		Date:	Time:	Received by:	Date:	Time:	(Circle) HAND DELIVERED FEDEX UPS Tracking #:			



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July 22, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: ELVIS BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/19/24 11:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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](http://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:	07/19/2024	Sampling Date:	07/19/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	ELVIS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03558	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

**Sample ID: BH - 8 ( 1.0' ) (H244334-01)**

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	07/19/2024	ND	1.94	96.9	2.00	12.3		
Toluene*	<0.050	0.050	07/19/2024	ND	1.92	96.0	2.00	10.8		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.95	97.3	2.00	10.2		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.72	95.4	6.00	10.6		
Total BTX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/22/2024	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	07/19/2024	ND	209	105	200	4.60	
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	216	108	200	8.69	
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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





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

QUESTIONS

Action 456496

**QUESTIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 456496
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nDHR1917849099
Incident Name	NDHR1917849099 ELVIS TANK BATTERY FACILITY @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Facility	[fDHR1917848956] ELVIS TANK BATTERY FACILITY

**Location of Release Source**

Please answer all the questions in this group.

Site Name	ELVIS TANK BATTERY FACILITY
Date Release Discovered	06/03/2019
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Crude Oil   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 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.



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**1220 S. St Francis Dr.**  
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QUESTIONS, Page 2

Action 456496

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 456496
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
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: <b>Chuck Terhune</b> Title: <b>Program Manager</b> Email: <b>chuck.terhune@tetrattech.com</b> Date: <b>04/29/2025</b>
--	--

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 456496

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	456496
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	12000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	15208
GRO+DRO (EPA SW-846 Method 8015M)	10448.6
BTEX (EPA SW-846 Method 8021B or 8260B)	0.7
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	07/10/2024
On what date will (or did) the final sampling or liner inspection occur	07/19/2024
On what date will (or was) the remediation complete(d)	07/21/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1575
What is the estimated volume (in cubic yards) that will be remediated	160
<i>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.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 456496

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 456496
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 04/29/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

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Action 456496

**QUESTIONS (continued)**

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**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Chloride is present at a concentration of 12,000 mg/kg at AH-22-1 from 9 to 11 feet bgs directly below the tank battery. To excavate and dispose of the impacted material, the majority of the tank battery facility, including storage tanks, would need to be deconstructed and removed from the surface to complete the remediation.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	5500
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	407
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	ELVIS TANK BATTERY FACILITY [fDHR1917848956]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 04/29/2025



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**State of New Mexico**  
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**Oil Conservation Division**  
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Action 456496

**QUESTIONS (continued)**

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**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	363078
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/19/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

**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	No
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CONDITIONS

Action 456496

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
rhamlet	Maverick's deferral requests final remediation for (Incident Number NDHR1917849099) until final reclamation of the well pad or major construction, whichever comes first. Tetra Tech and Maverick do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the shaded area on figure 5 that is adjacent to and underneath the tank battery, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	5/28/2025